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Fig. -1

TRAFFIC COMPLEX

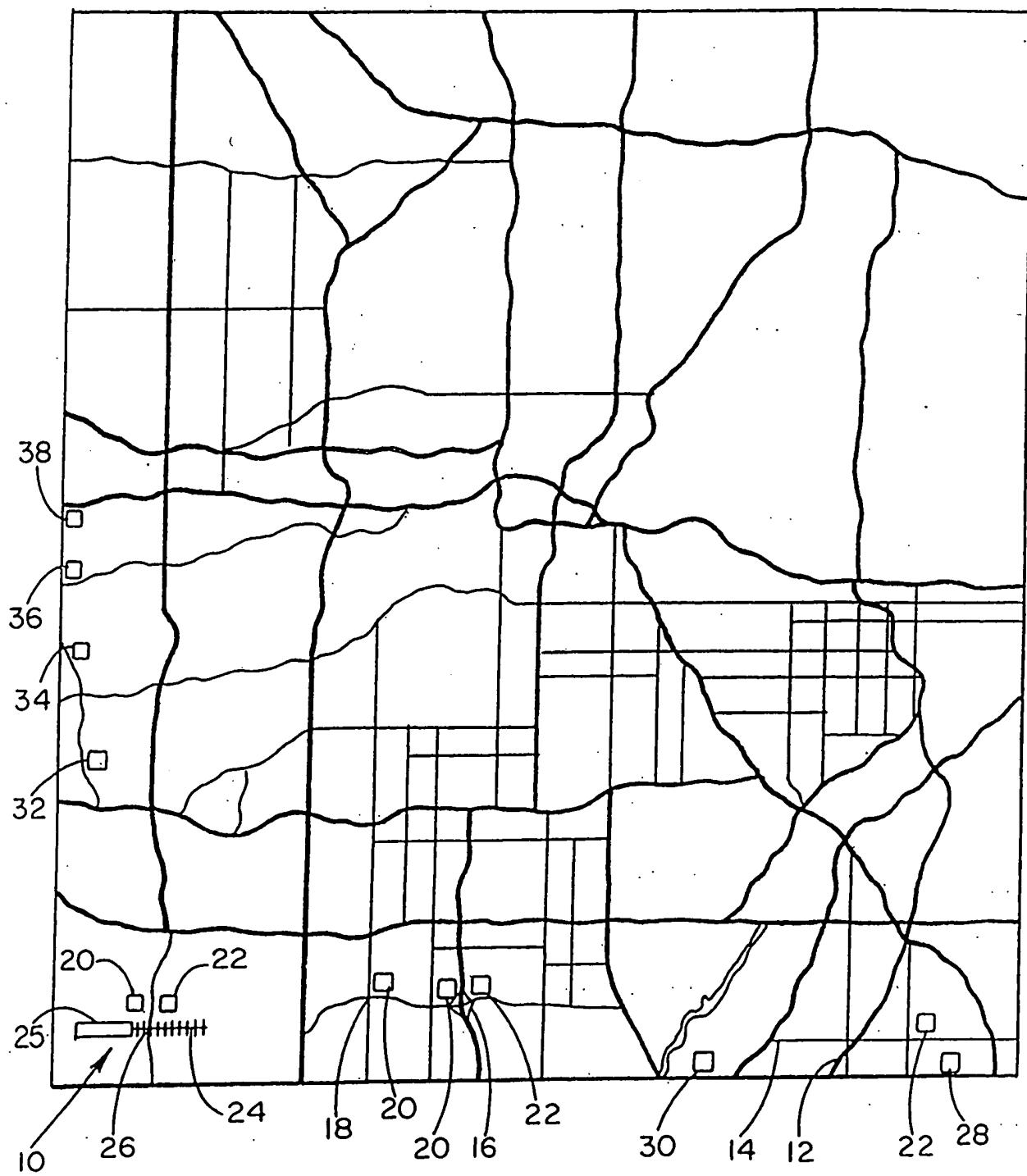


Fig. -2

COMMUNICATION IN TRAFFIC COMPLEX

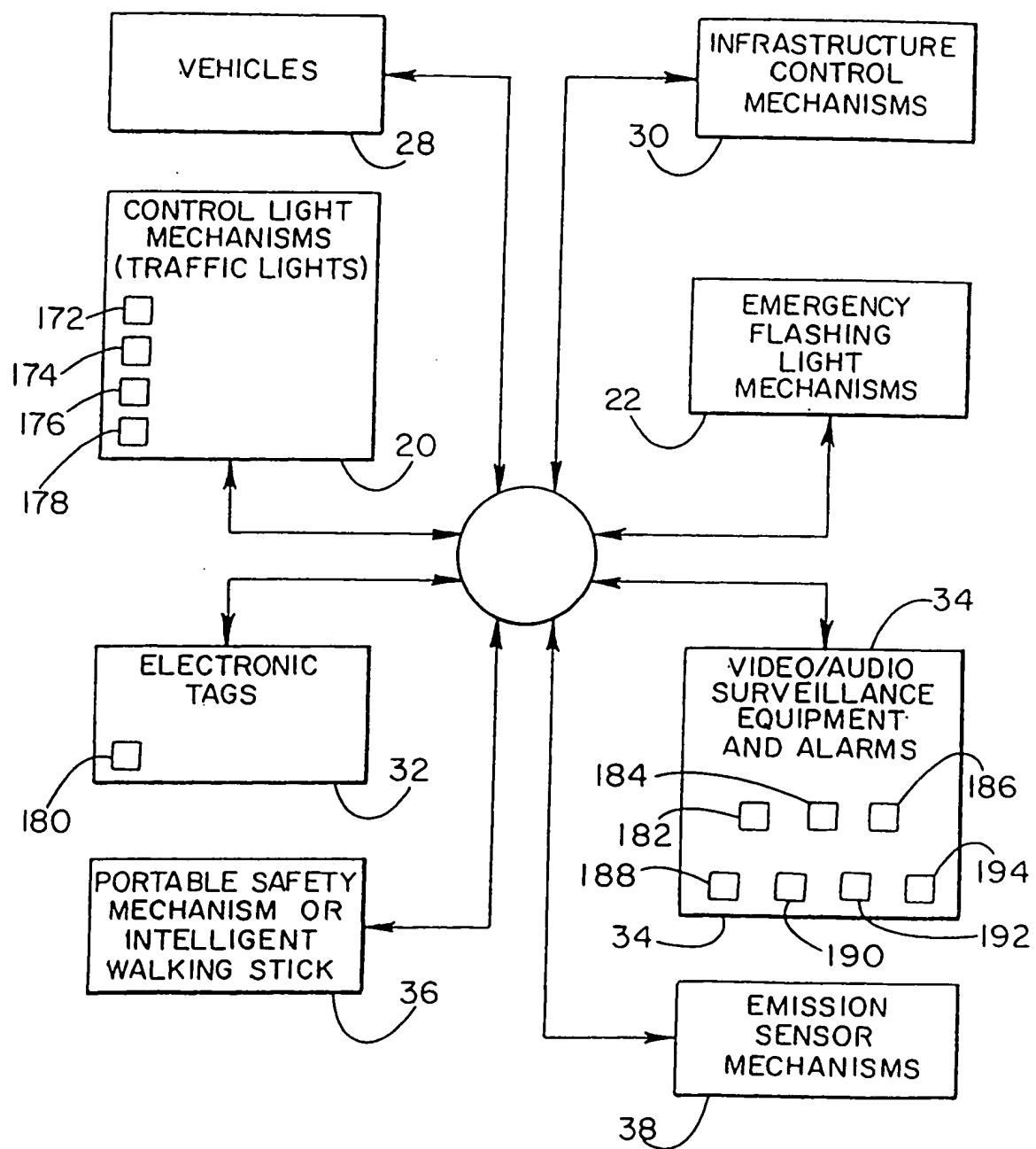


Fig. - 3A

VEHICLE
(AUTOMOBILE, TRUCK, BUS, EMERGENCY VEHICLE,
RIGHT-OF-WAY VEHICLES)

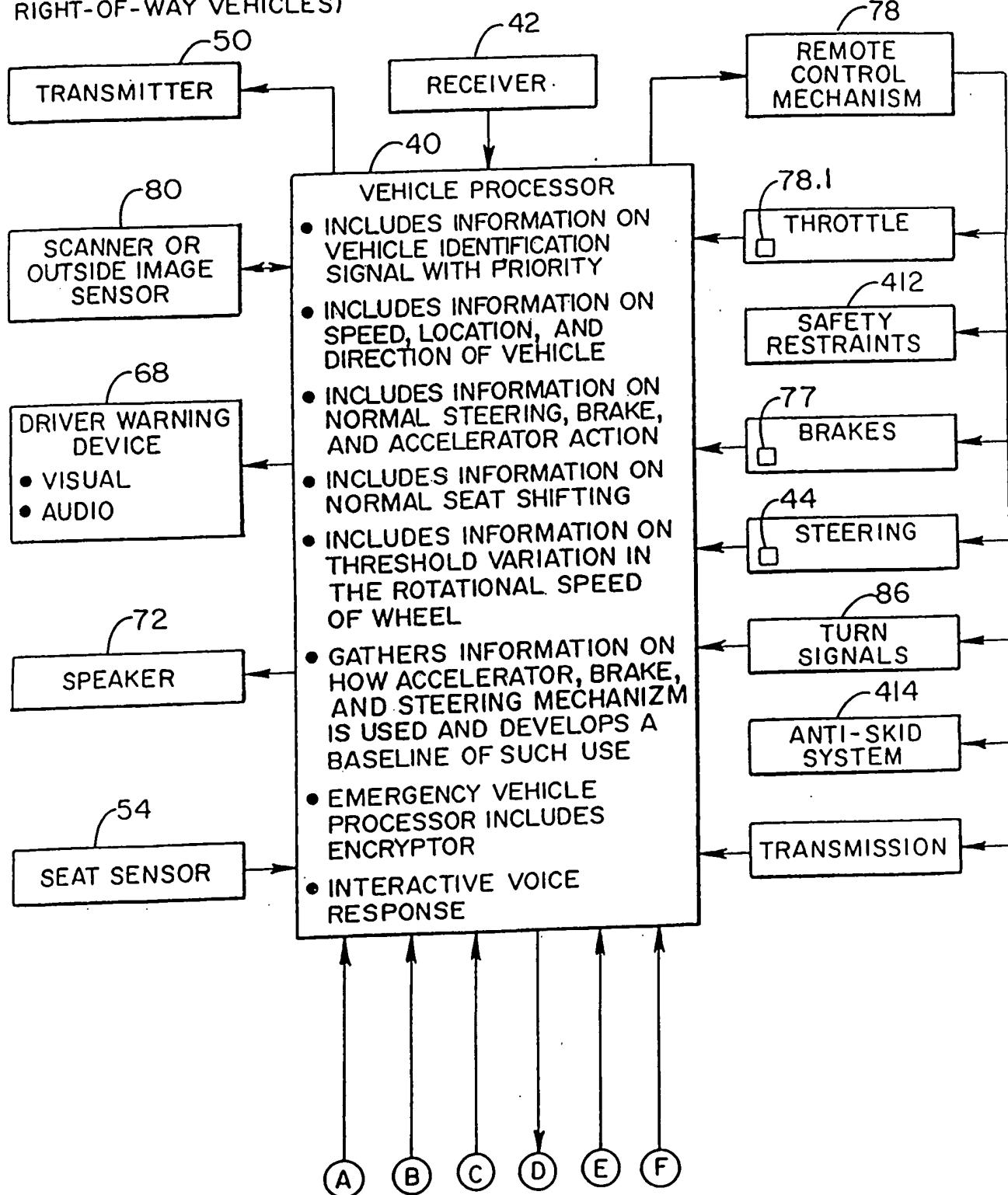


Fig.-3B

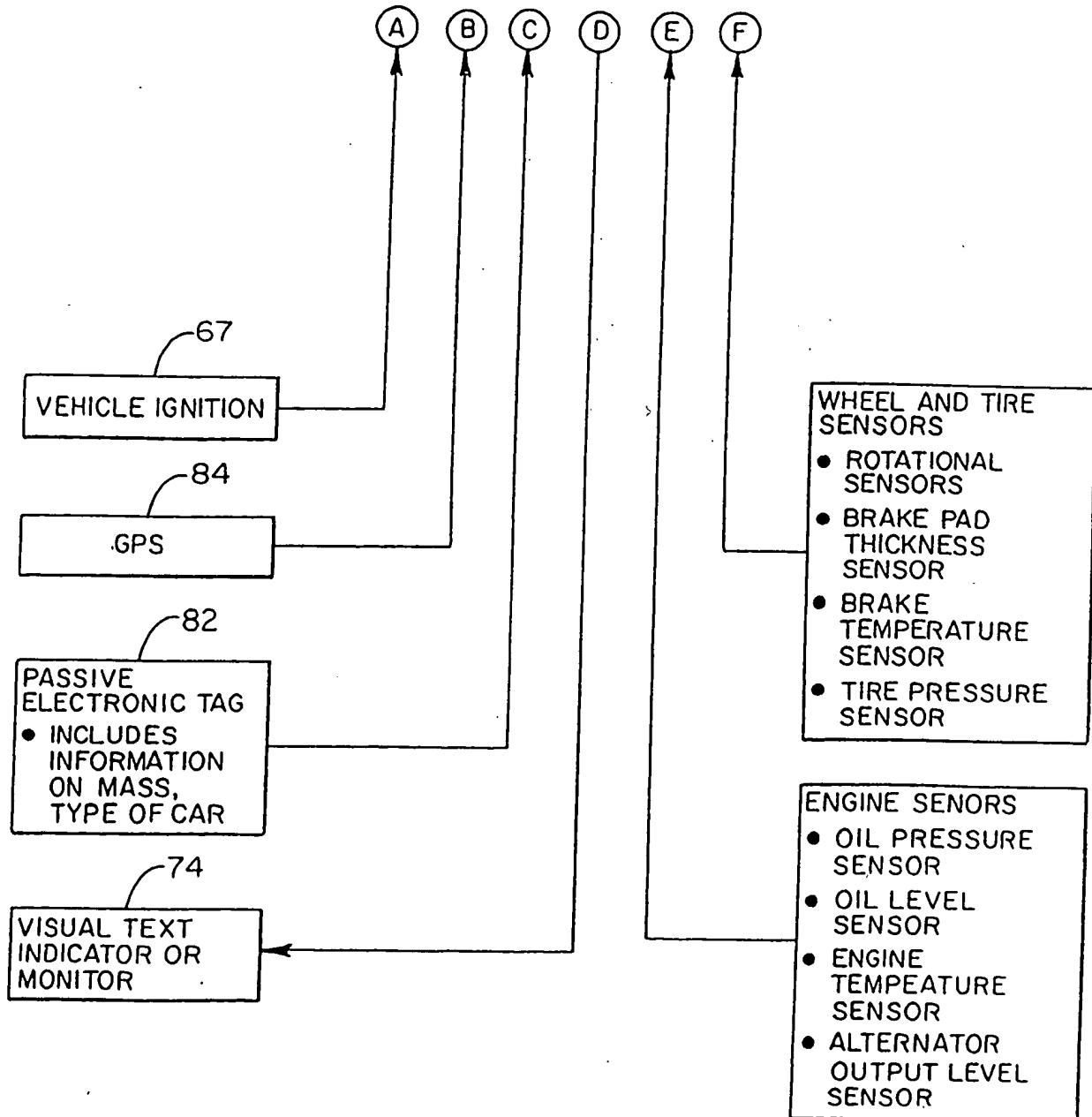


Fig. -4

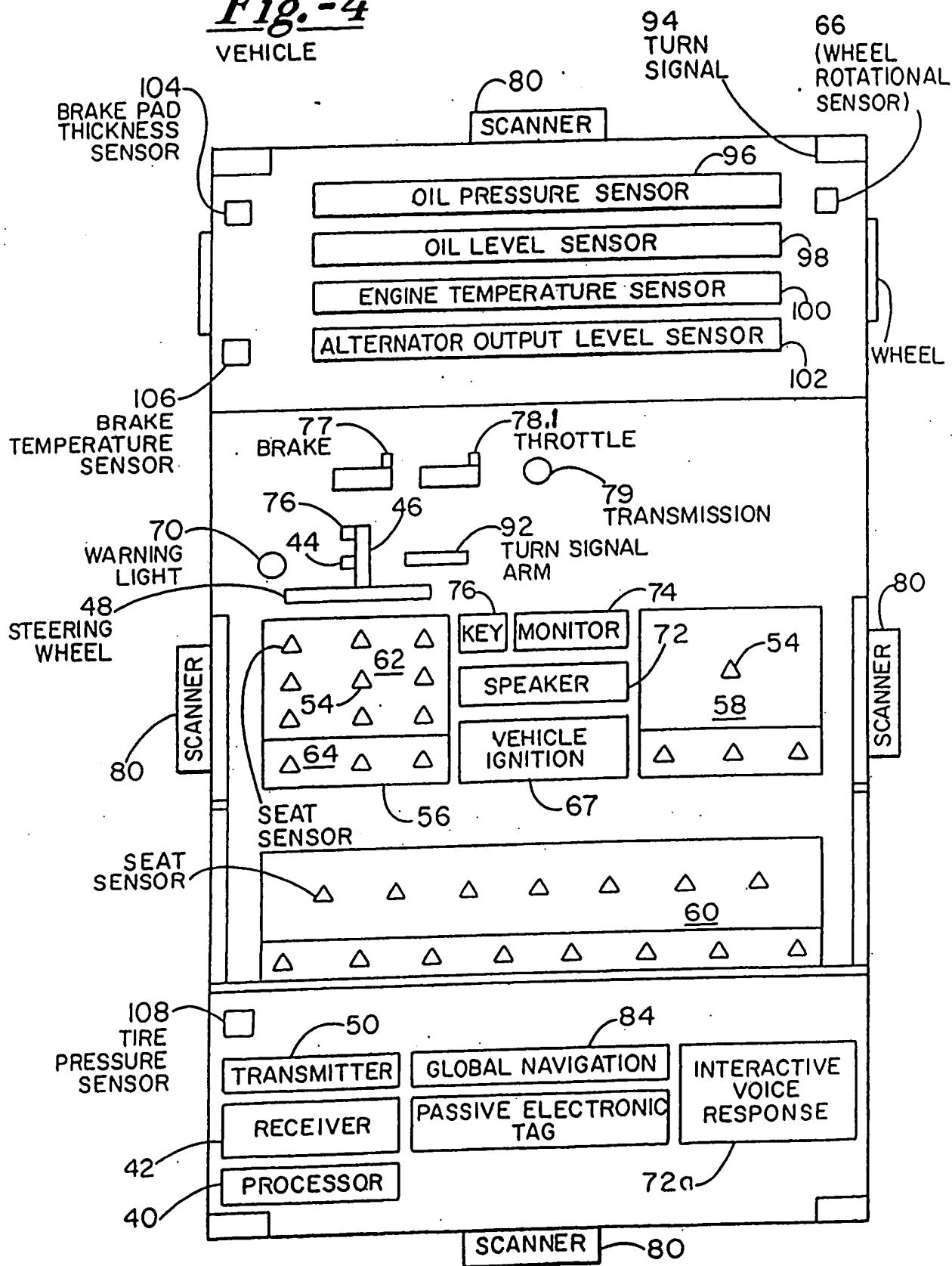


Fig. -5A

INFRASTRUCTURE CONTROL MECHANISM

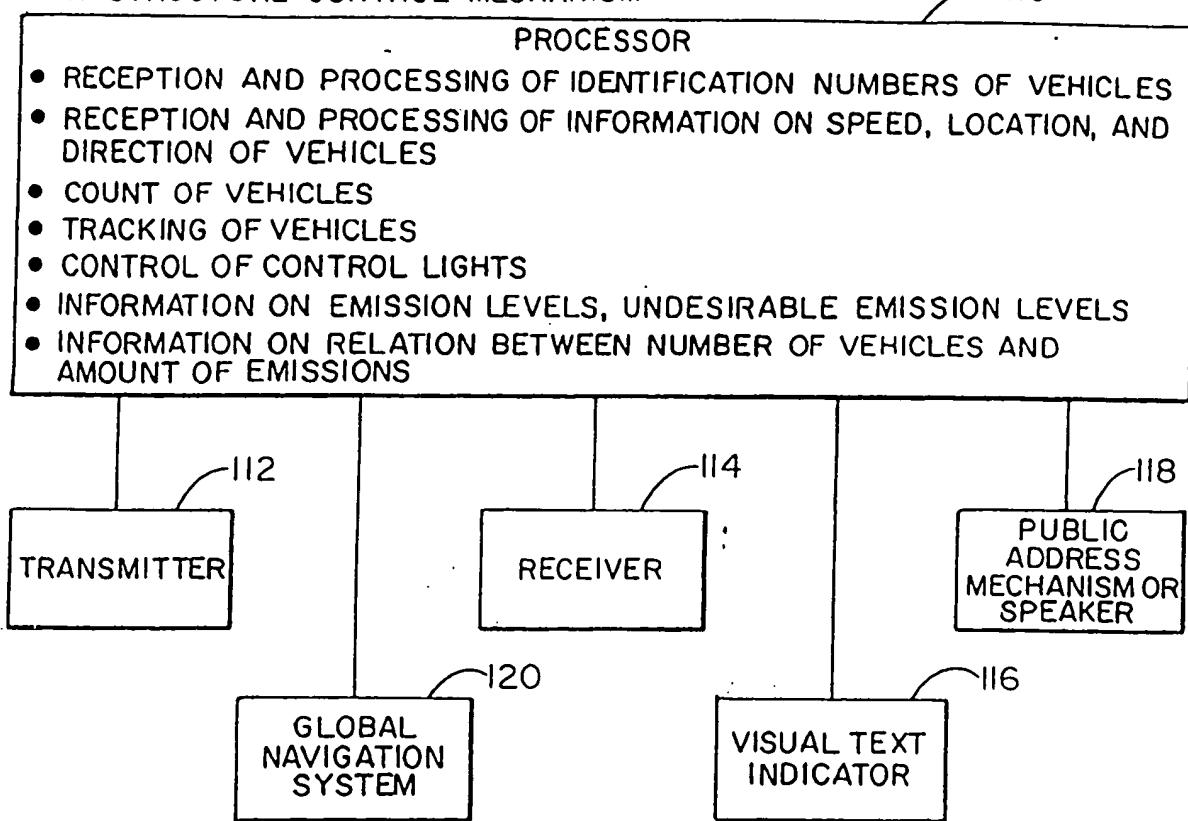


Fig. -5B

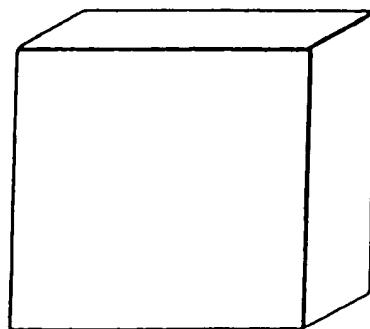


Fig.-6A

EMERGENCY FLASHING LIGHT MECHANISM

PROCESSOR

- OVERRIDES TRAFFIC CONTROL LIGHTS
- INCLUDES PREDETERMINED PROTOCOL FOR VEHICLE WITH HIGHEST PRIORITY
- CHOOSES TO ASSIGN A HIGHER PRIORITY WHERE TWO OR MORE VEHICLES HAVE THE SAME PRIORITY
- INCLUDES DECODING SOFTWARE OR ENCRYPTION SOFTWARE TO DECODE IDENTIFICATION SIGNALS FROM EMERGENCY VEHICLES

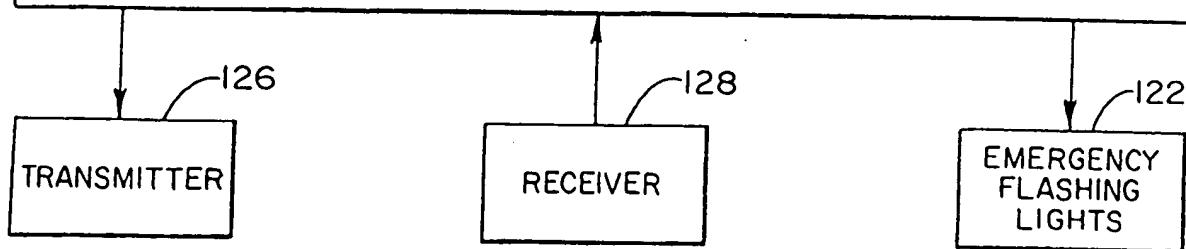


Fig.-6B



Fig.-7A

CONTROL LIGHT MECHANISM

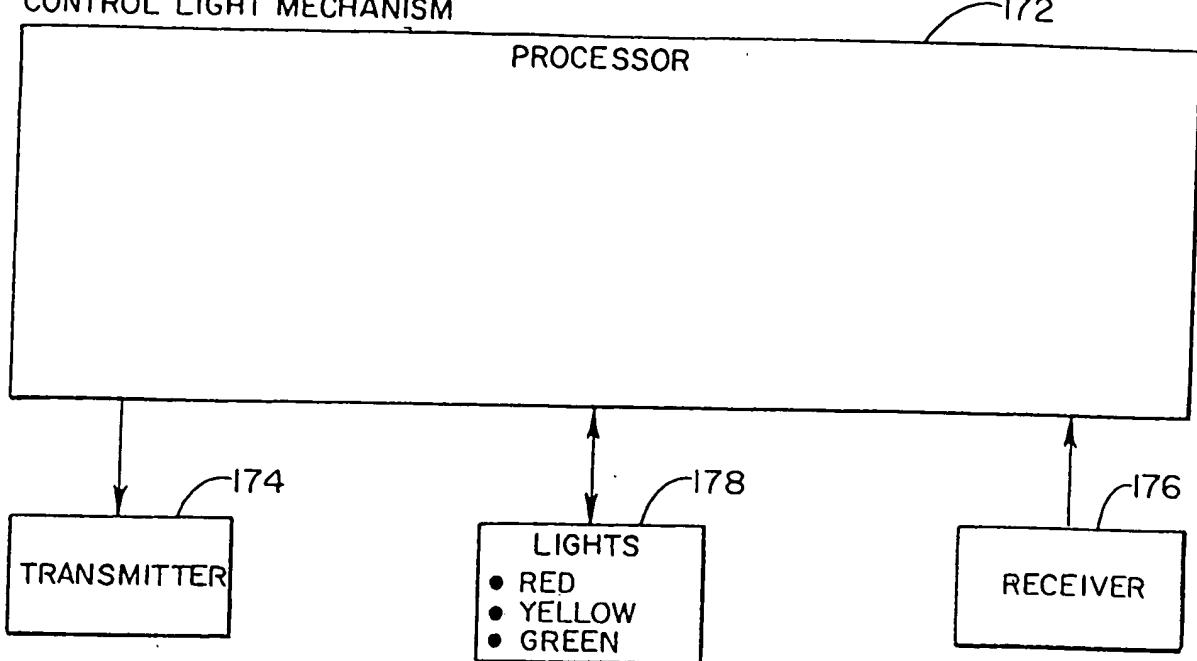


Fig.-7B

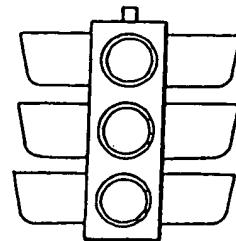


Fig.-8A

VIDEO/AUDIO SURVEILLANCE AND ALARM EQUIPMENT

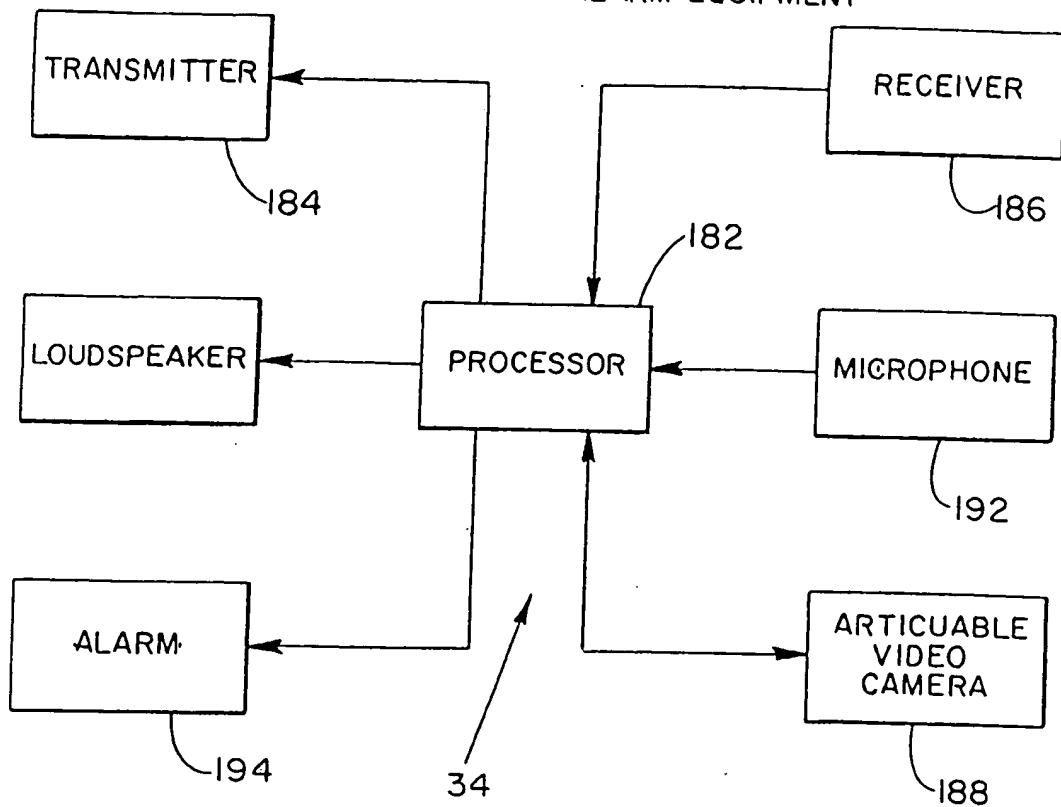


Fig.-8B

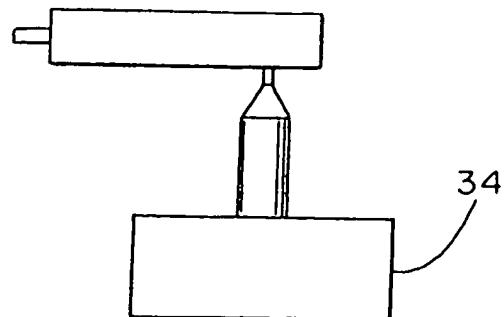


Fig.-9A

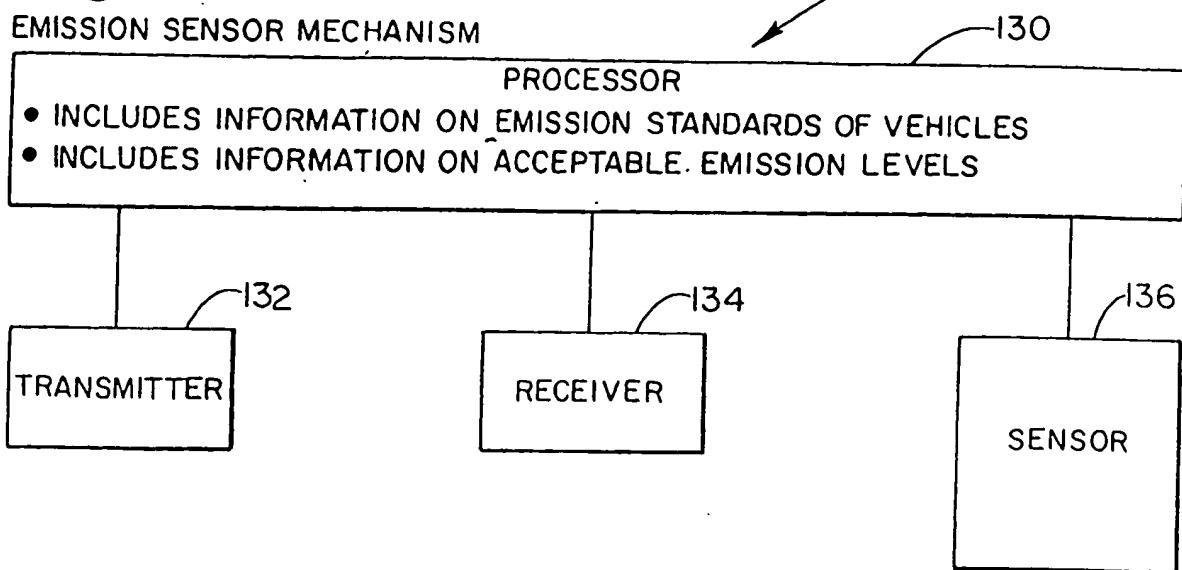


Fig.-9B

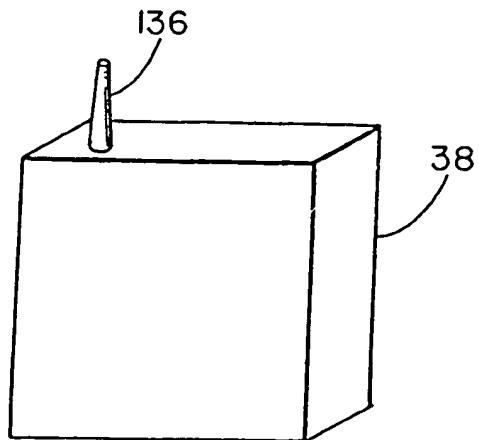


Fig.-10A

ELECTRONIC TAG MECHANISM

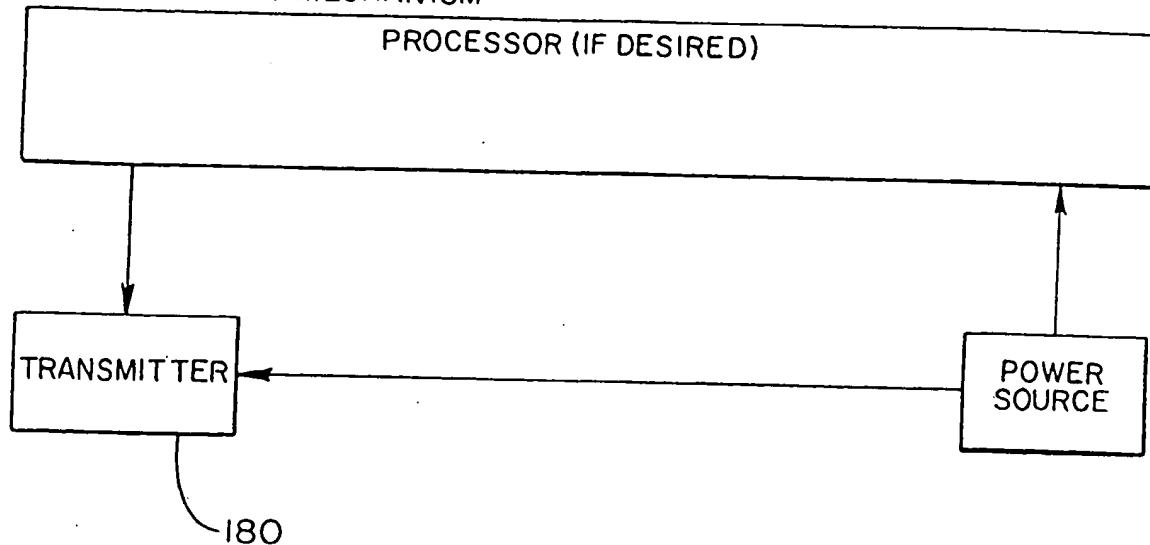


Fig.-10B

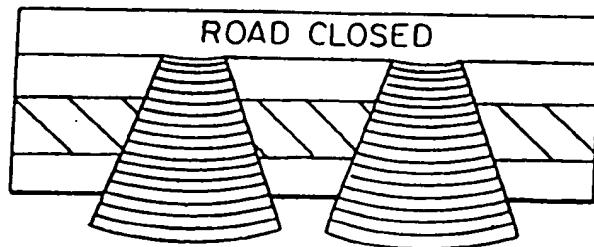


Fig.-IIA

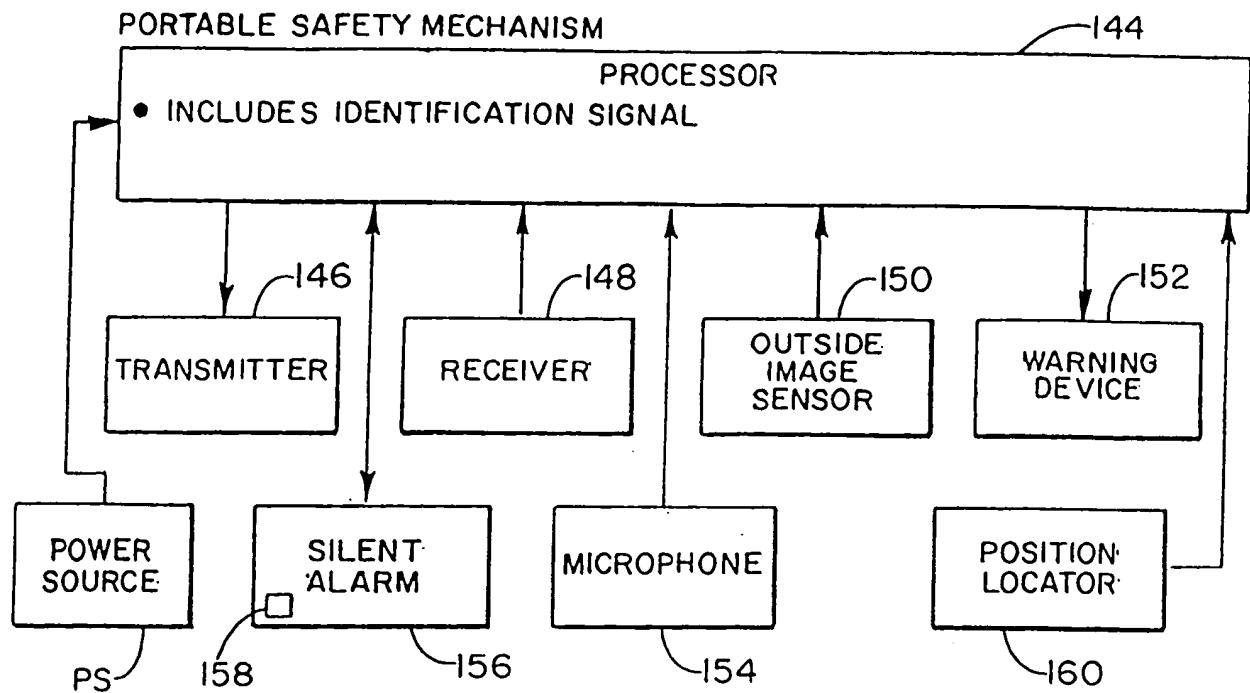


Fig.-IIB

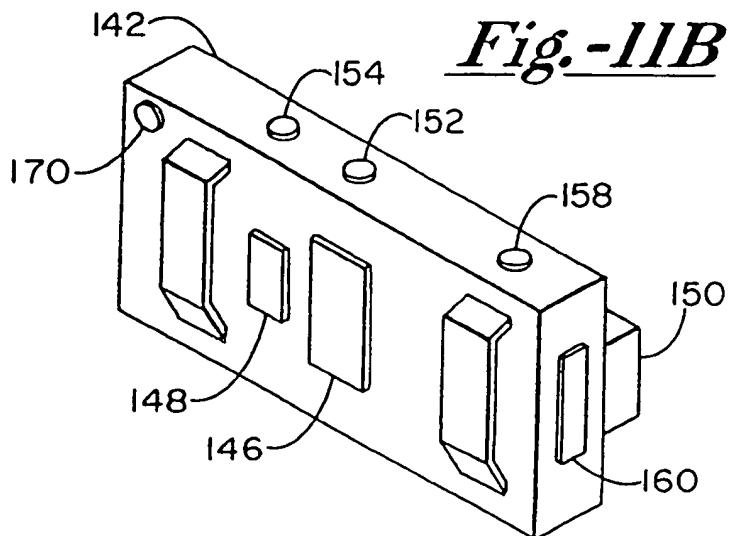


Fig.-12B

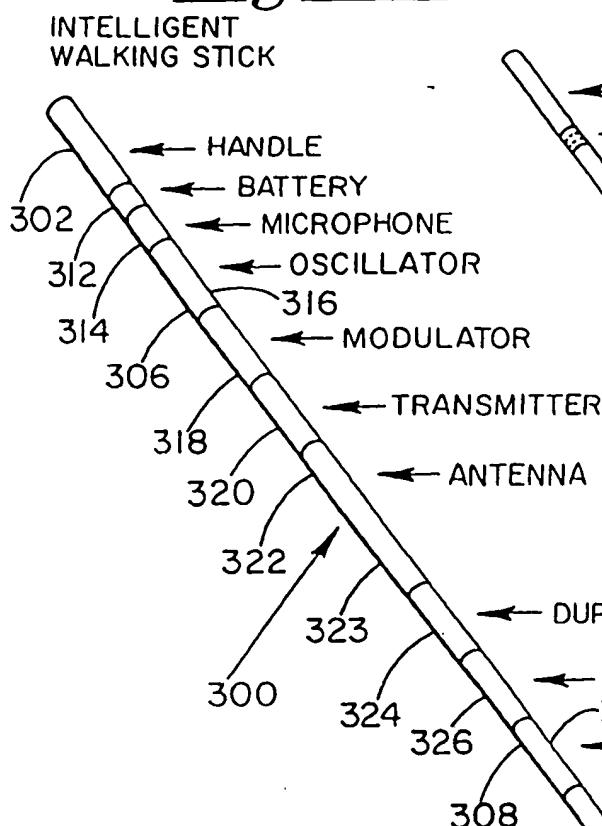


Fig.-12C

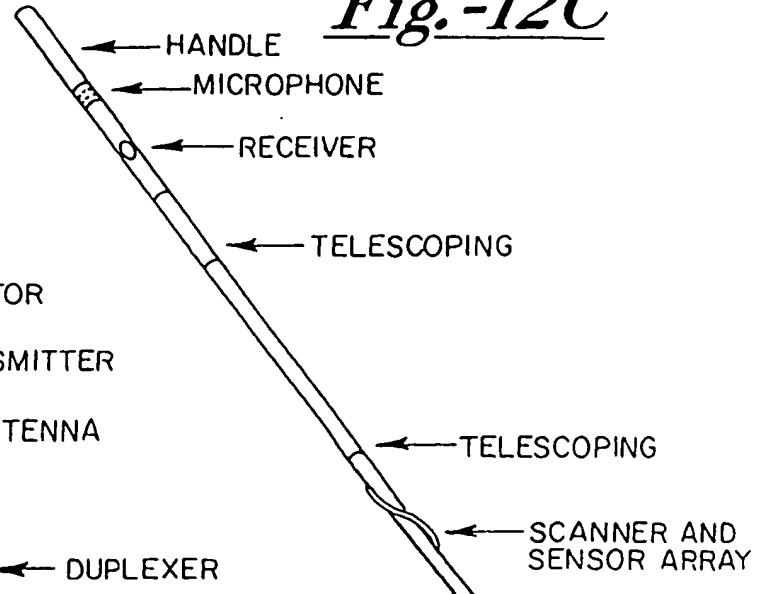


Fig.-12A

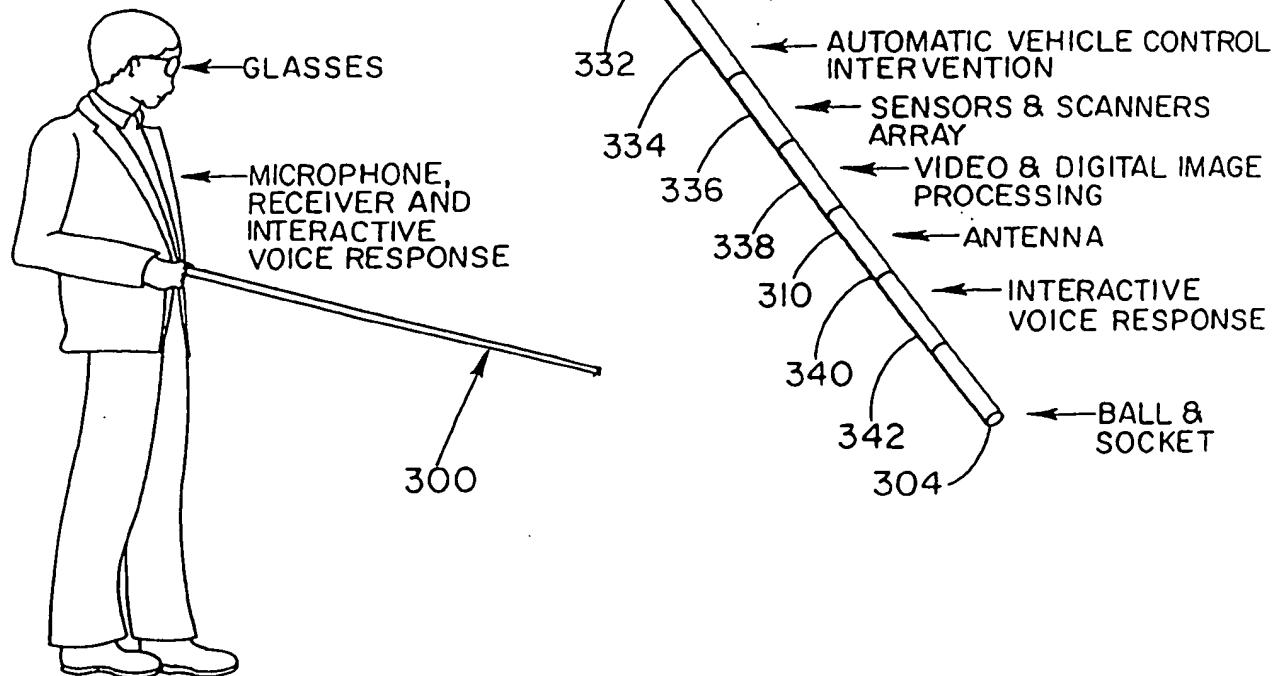


Fig. -13

COMMUNICATIONS

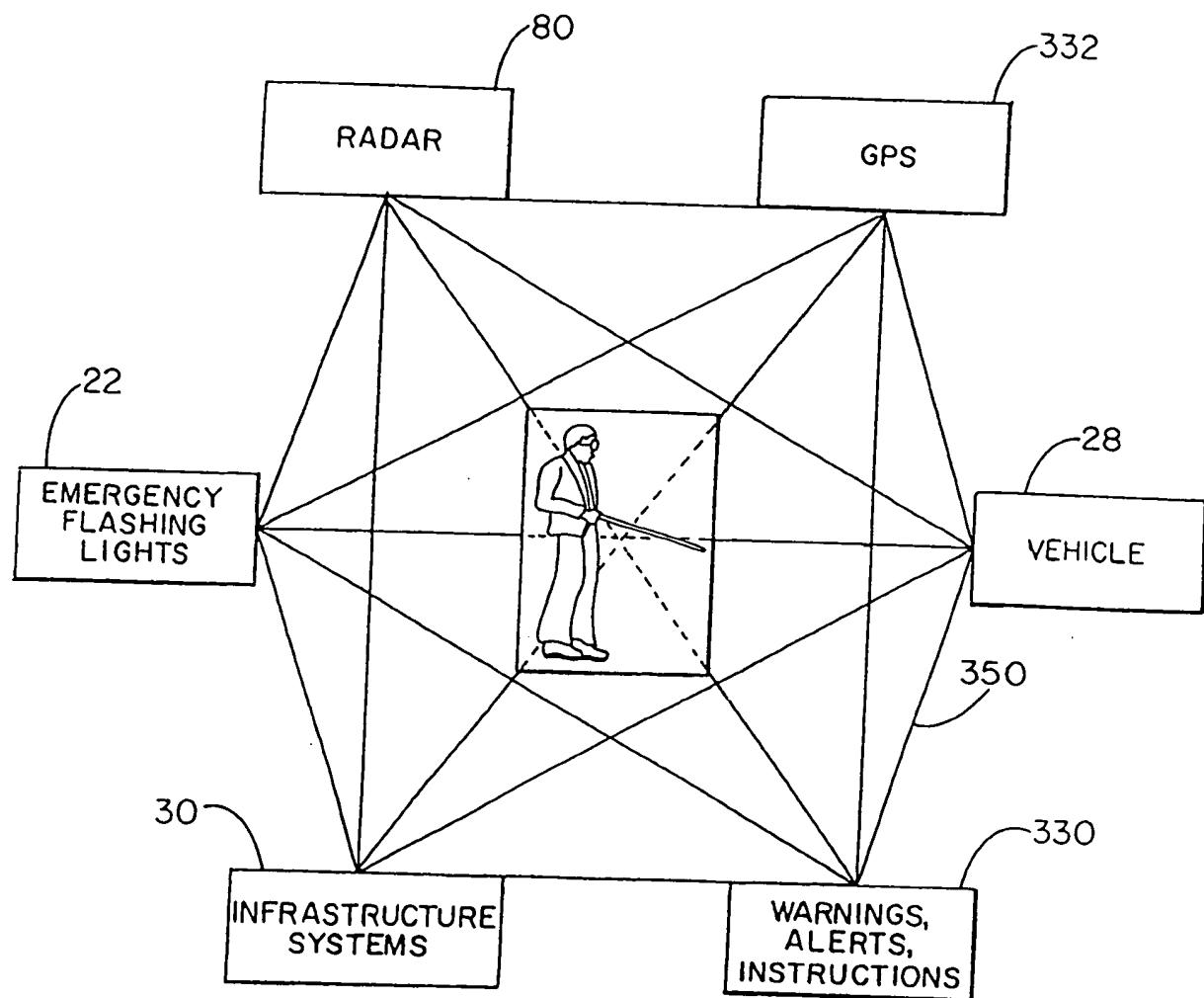


Fig. -14A

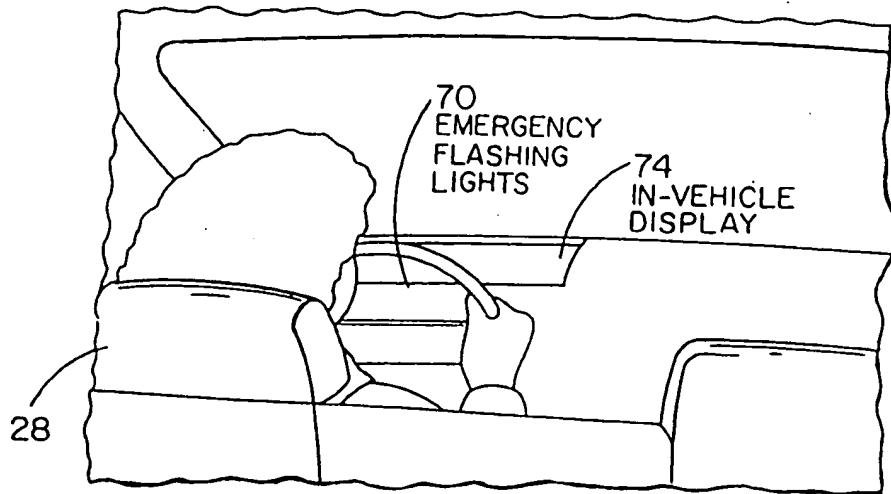


Fig. -14B

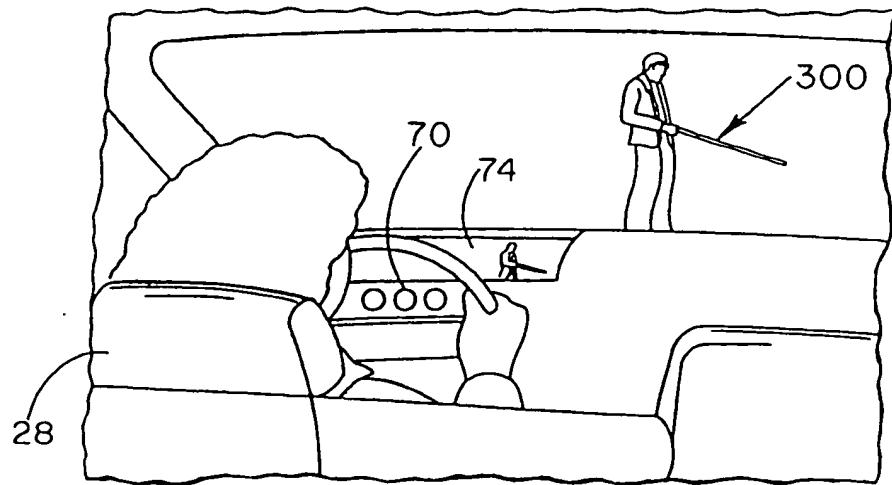


Fig.-15A

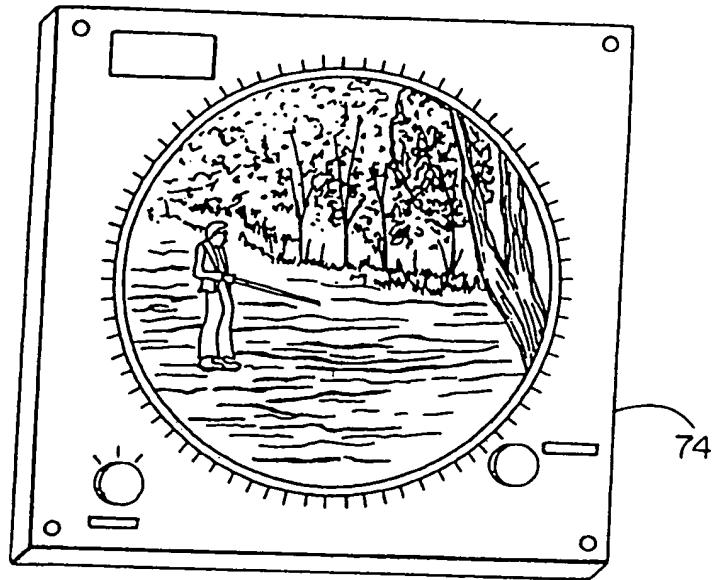


Fig.-15B

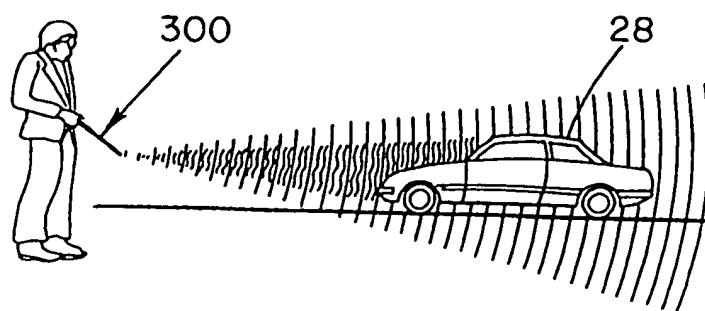


Fig.-16A

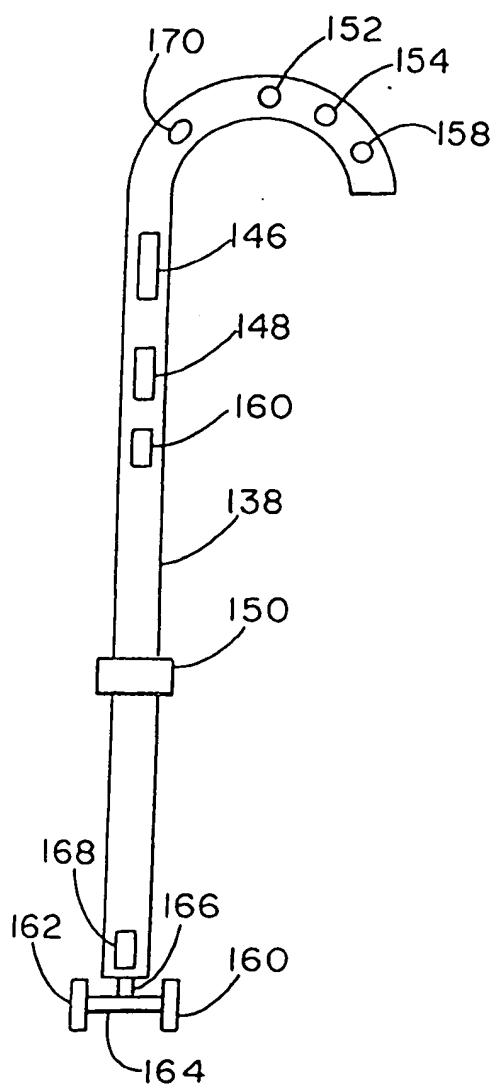


Fig.-16B

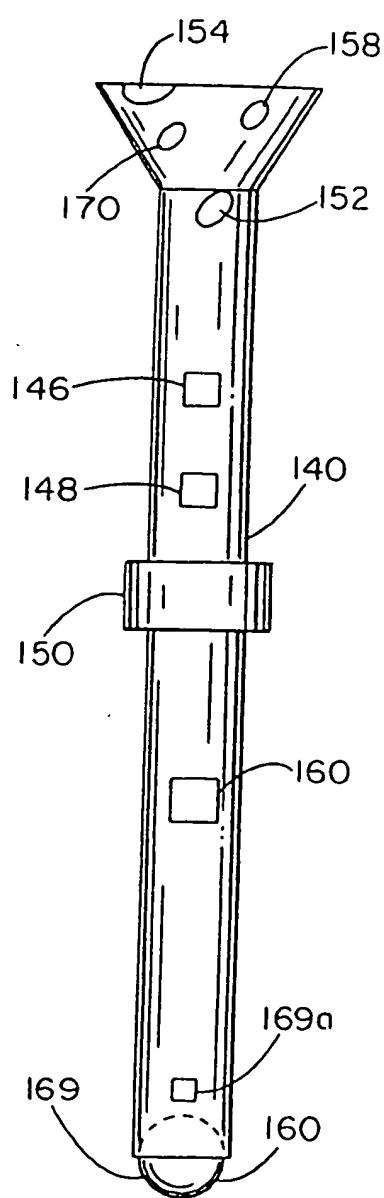


Fig.-17A

ANTISKID SYSTEM

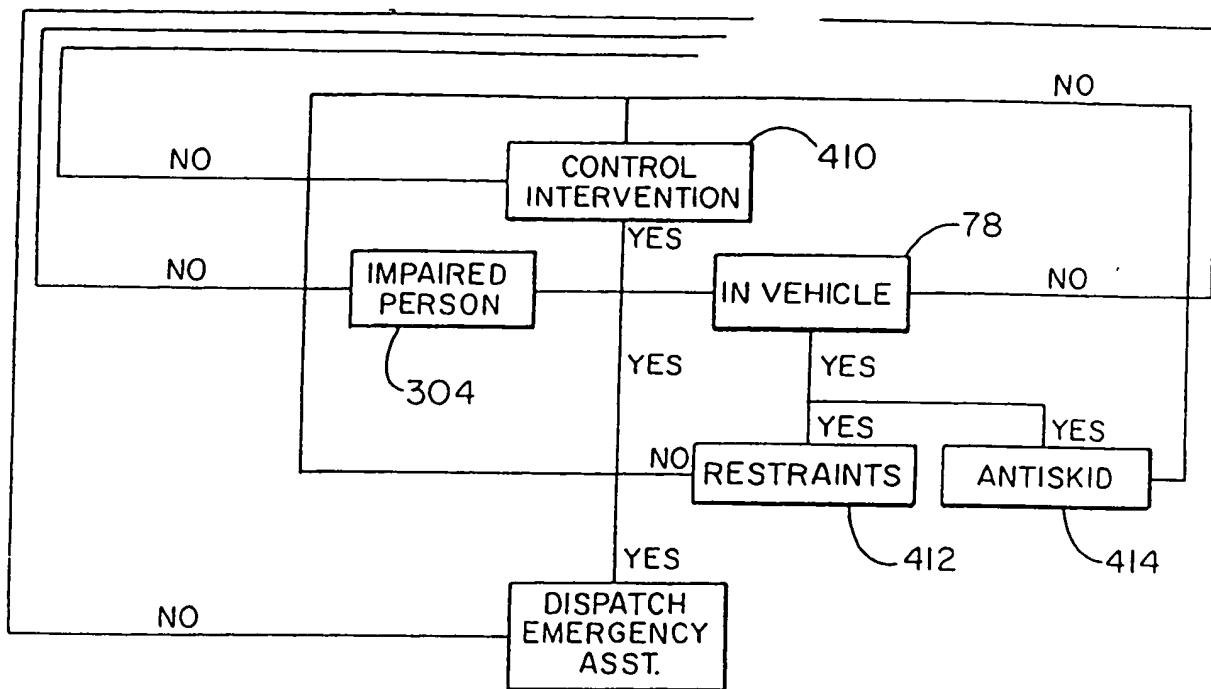


Fig.-17B

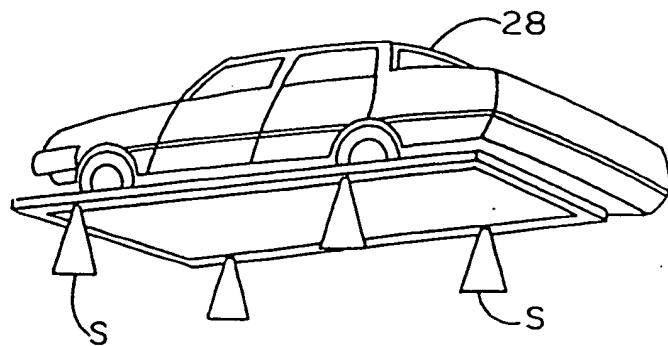
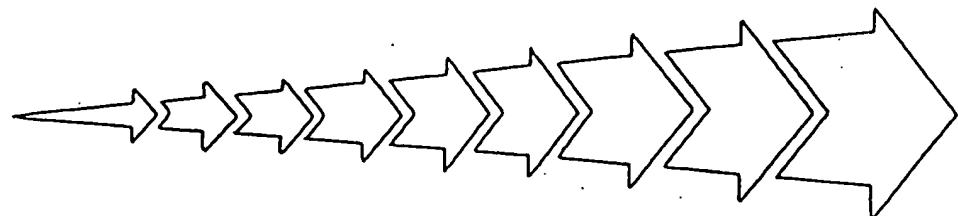
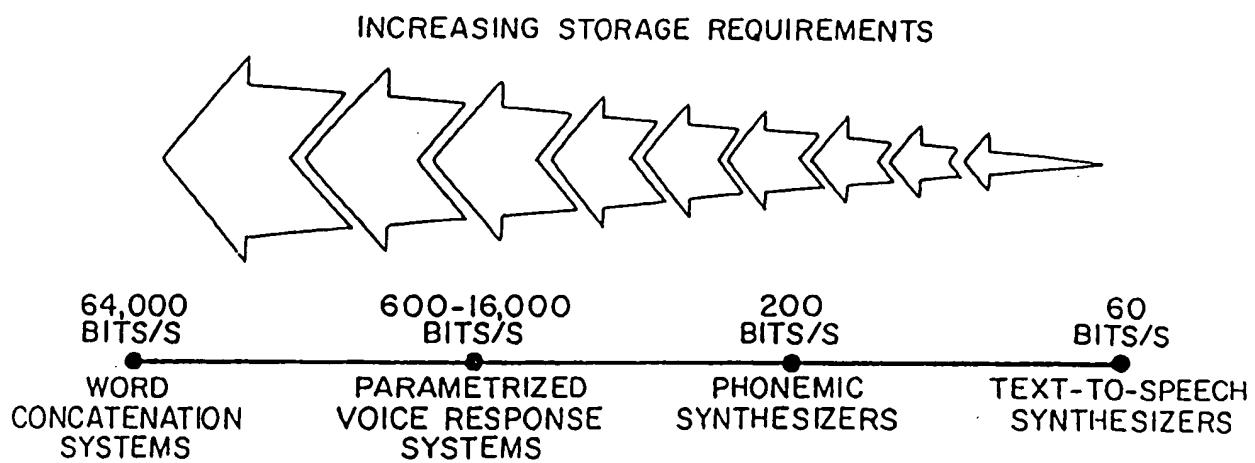


Fig. -18 (PRIOR ART)

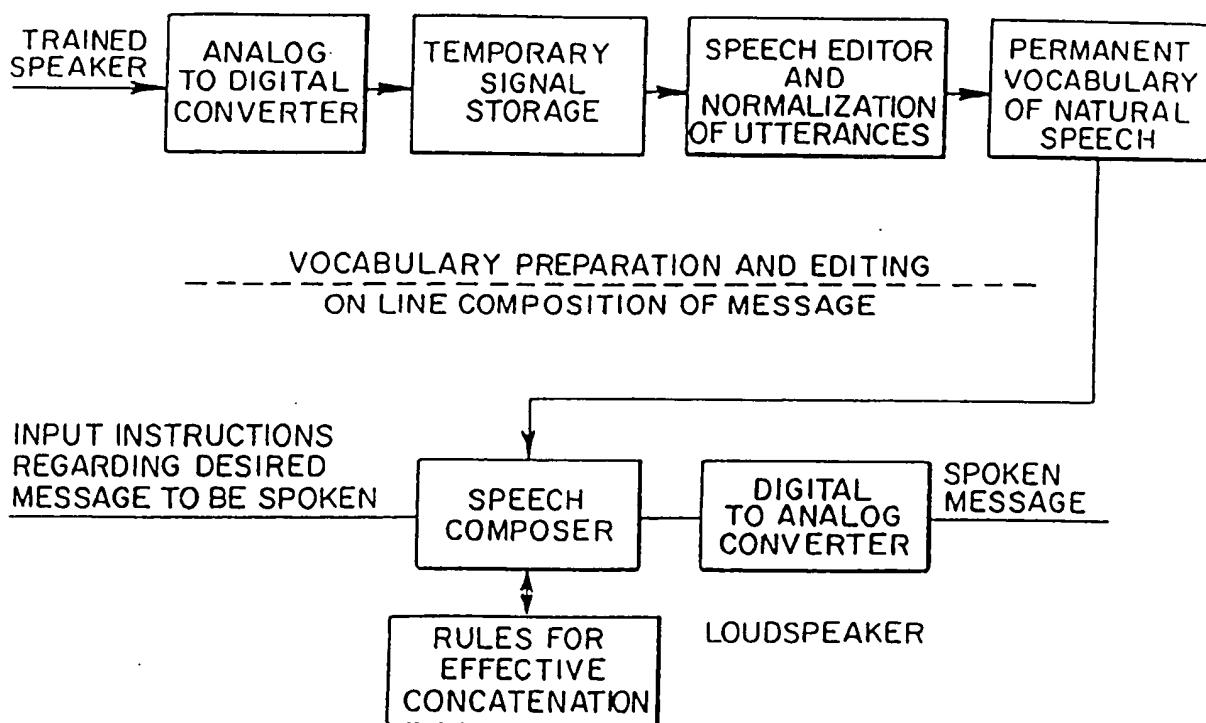
INTERACTIVE VOICE RESPONSE



SPECTRUM OF ALTERNATIVE TYPES OF VOICE RESPONSE SYSTEMS.

Fig. -19A (PRIOR ART)

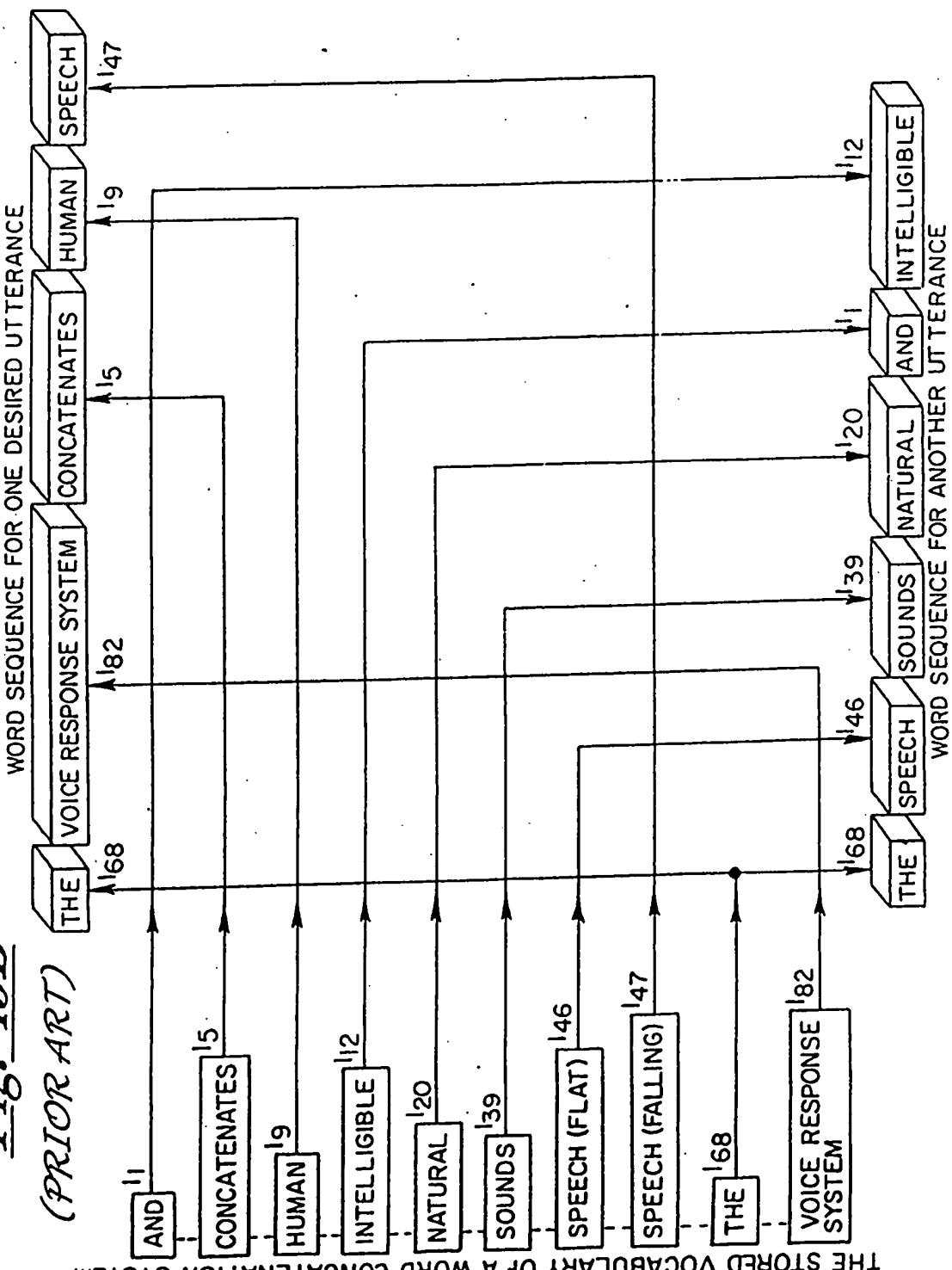
INTERACTIVE VOICE RESPONSE



VOICE RESPONSE SYSTEM WHICH IS BASED UPON CONCATENATION OF WORDS SPOKEN BY A HUMAN.

Fig. - 19B

THE STORED VOCABULARY OF A WORD CONCENTRATION SYSTEM



WAVEFORMS OF WORDS OR PHRASES FROM THE DICTIONARY ARE CONNECTED END TO END TO ACHIEVE CONNECTED VOICE OUTPUT FROM A WORD CONCATENATION SYSTEM.

(PRIOR ART)

Fig. -20A

INTERACTIVE VOICE RESPONSE

ANALOG TO DIGITAL CONVERSION

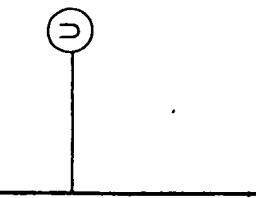
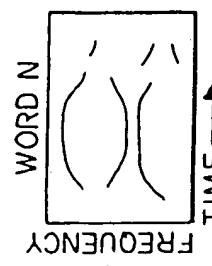
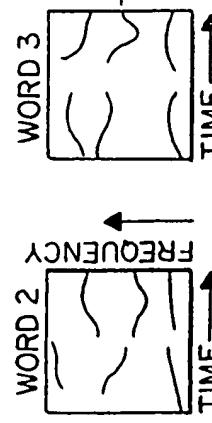
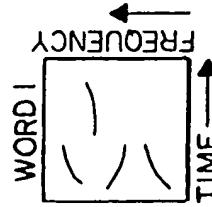
HUMAN SPEAKING OF WORDS

FORMAT TRACKING

PITCH TRACKING

FRICATIVE POLE AND
ZERO TRACKING

PARAMETRIZE DICTIONARY OF WORDS



VOCABULARY PREPARATION

(U)

Fig.-20B (PRIOR ART)

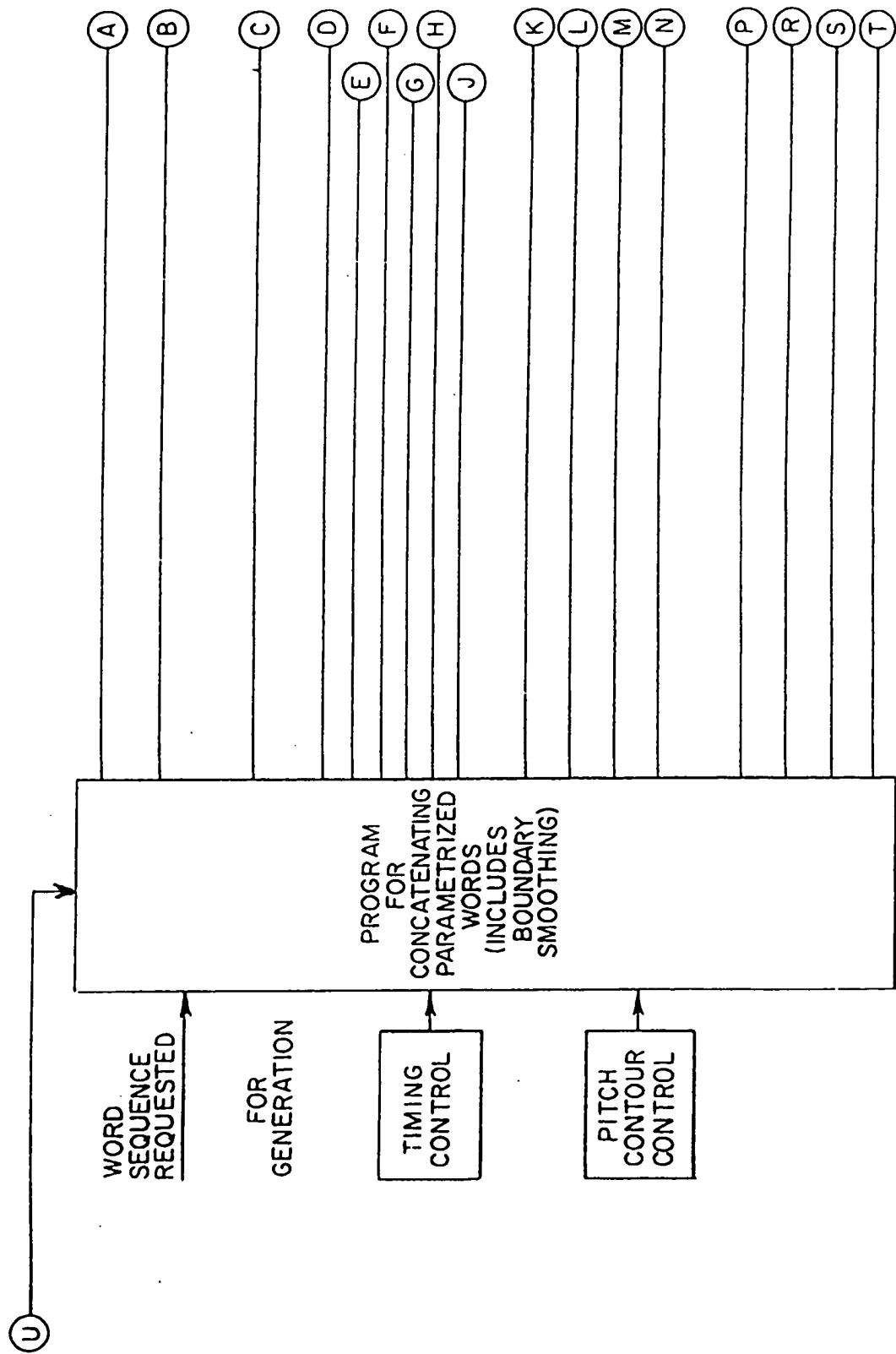


Fig. -20C (PRIOR ART)

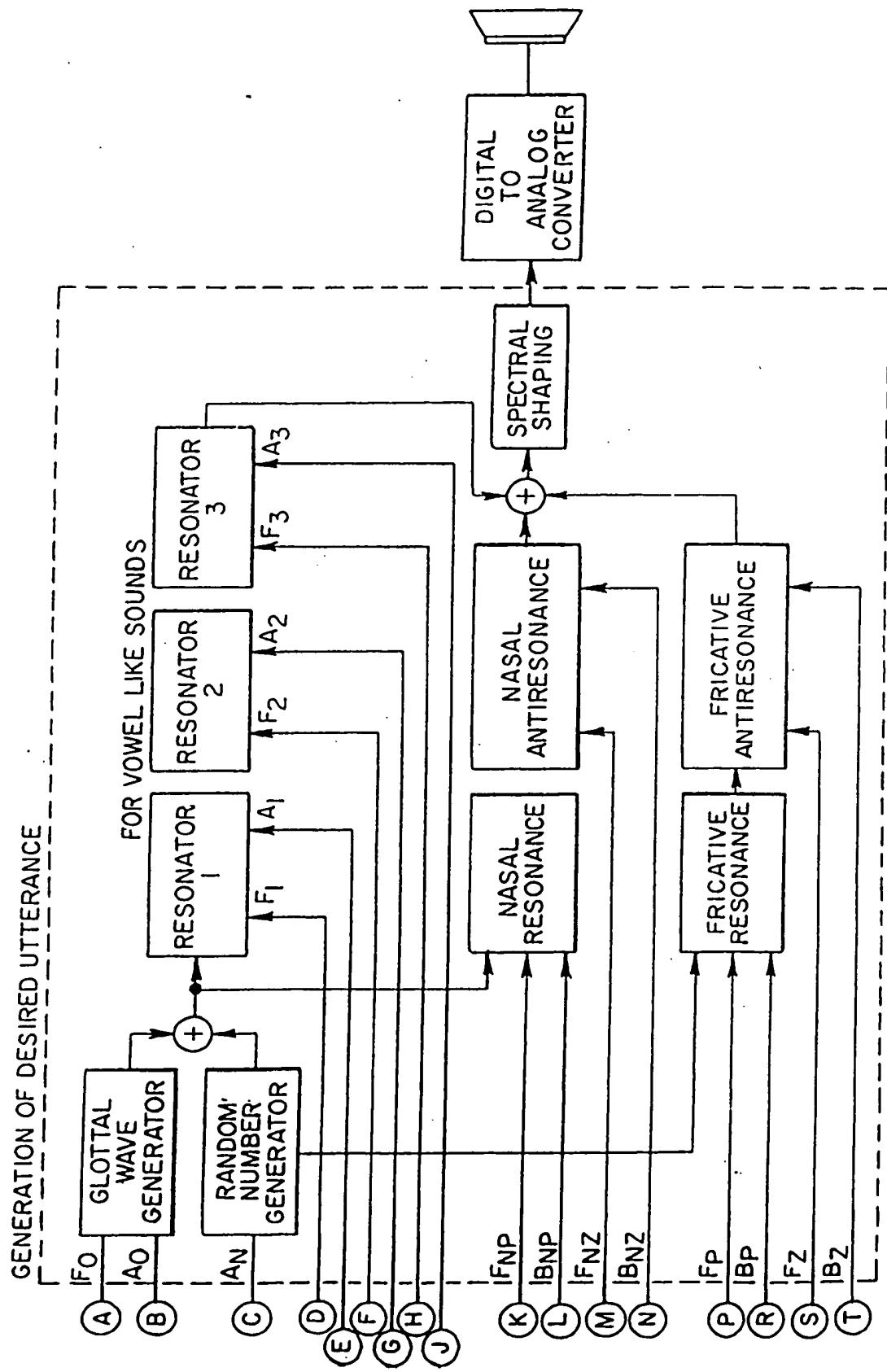
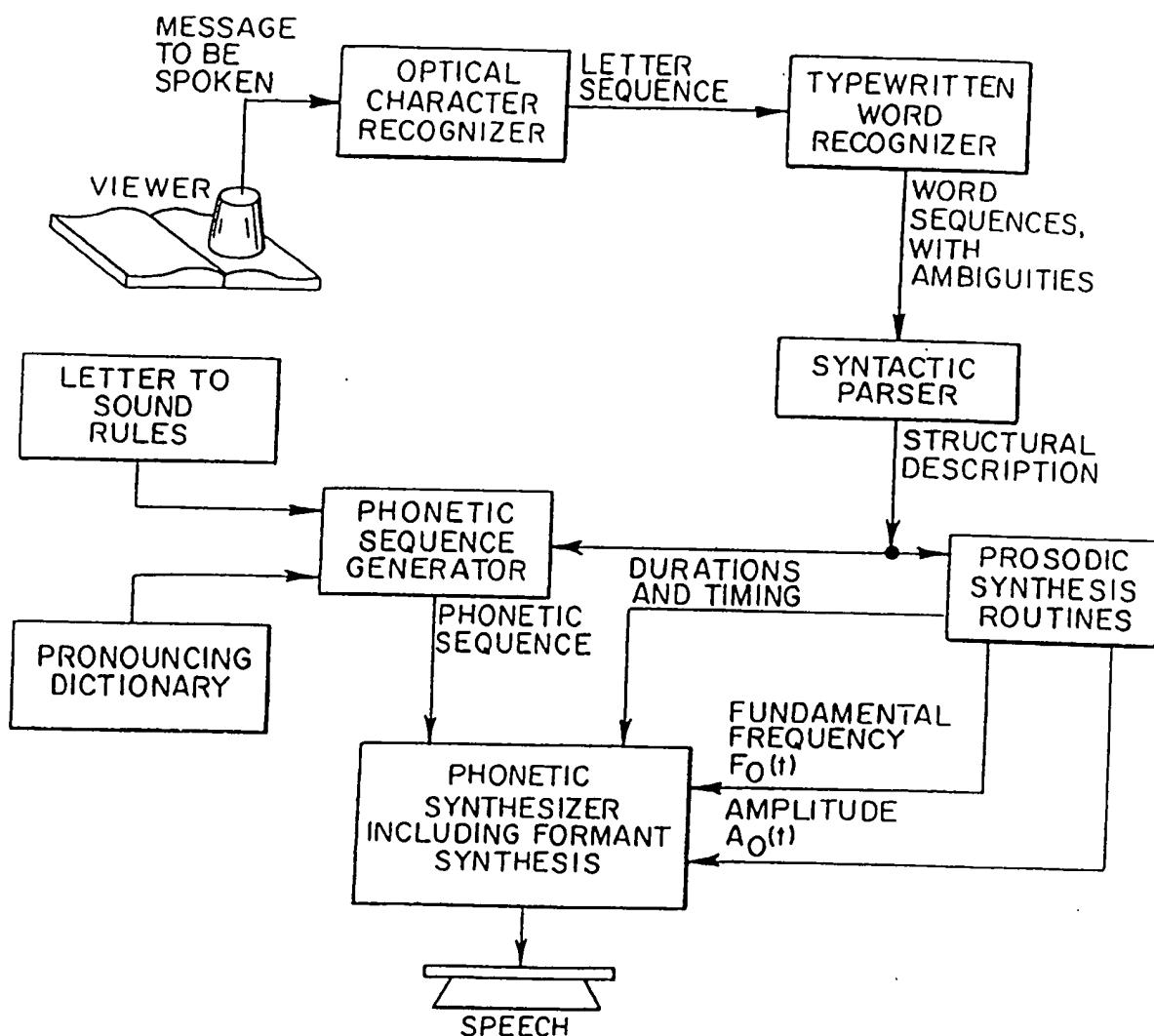


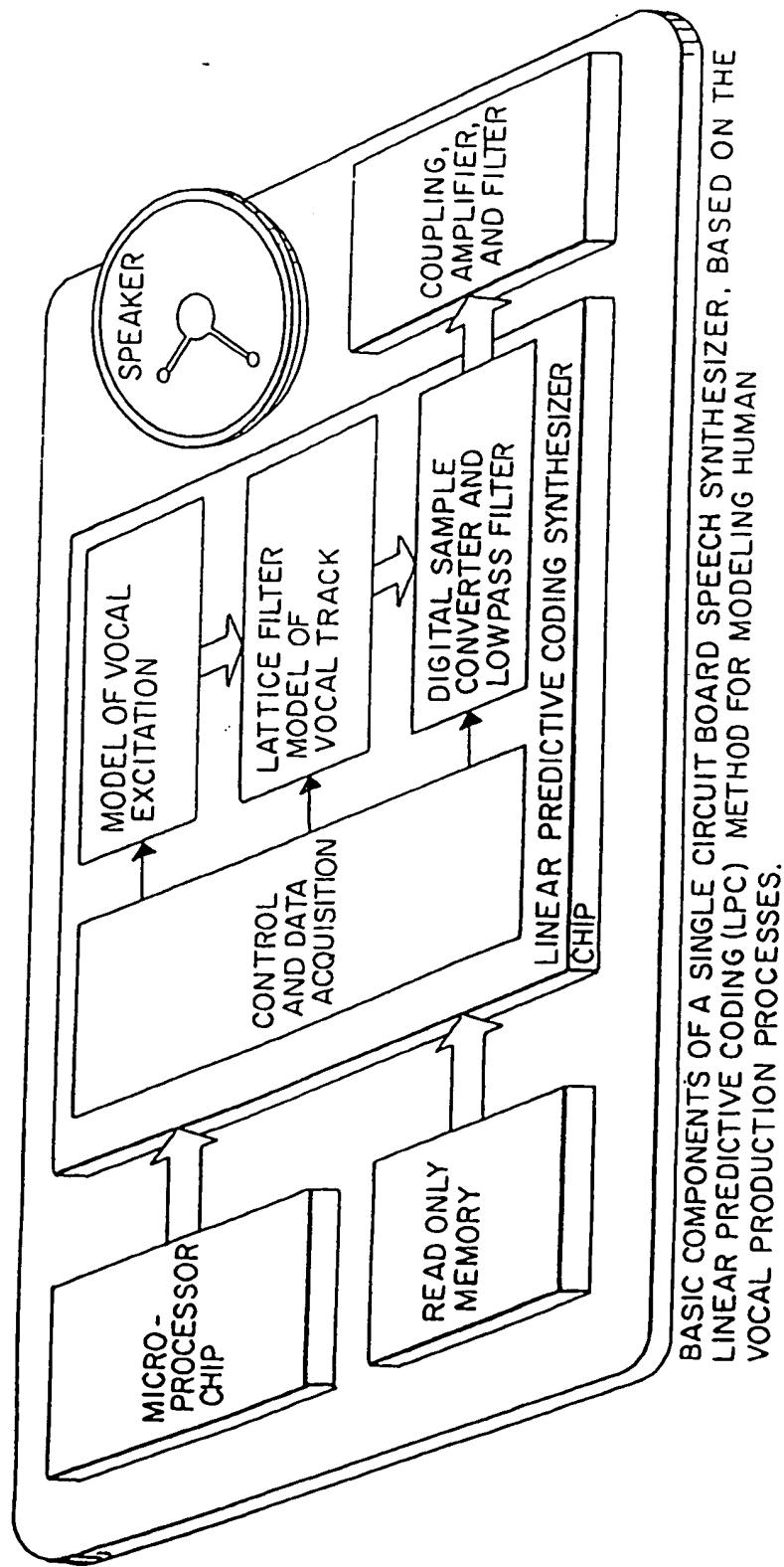
Fig. - 21A (PRIOR ART)

INTERACTIVE VOICE RESPONSE



TEXT TO SPEECH SYSTEM FOR GENERATING COMPLEX SENTENCES WITH LARGE VOCABULARIES

Fig. -2IB (PRIOR ART)



BASIC COMPONENTS OF A SINGLE CIRCUIT BOARD SPEECH SYNTHESIZER, BASED ON THE LINEAR PREDICTIVE CODING (LPC) METHOD FOR MODELING HUMAN VOCAL PRODUCTION PROCESSES.

Fig.-22

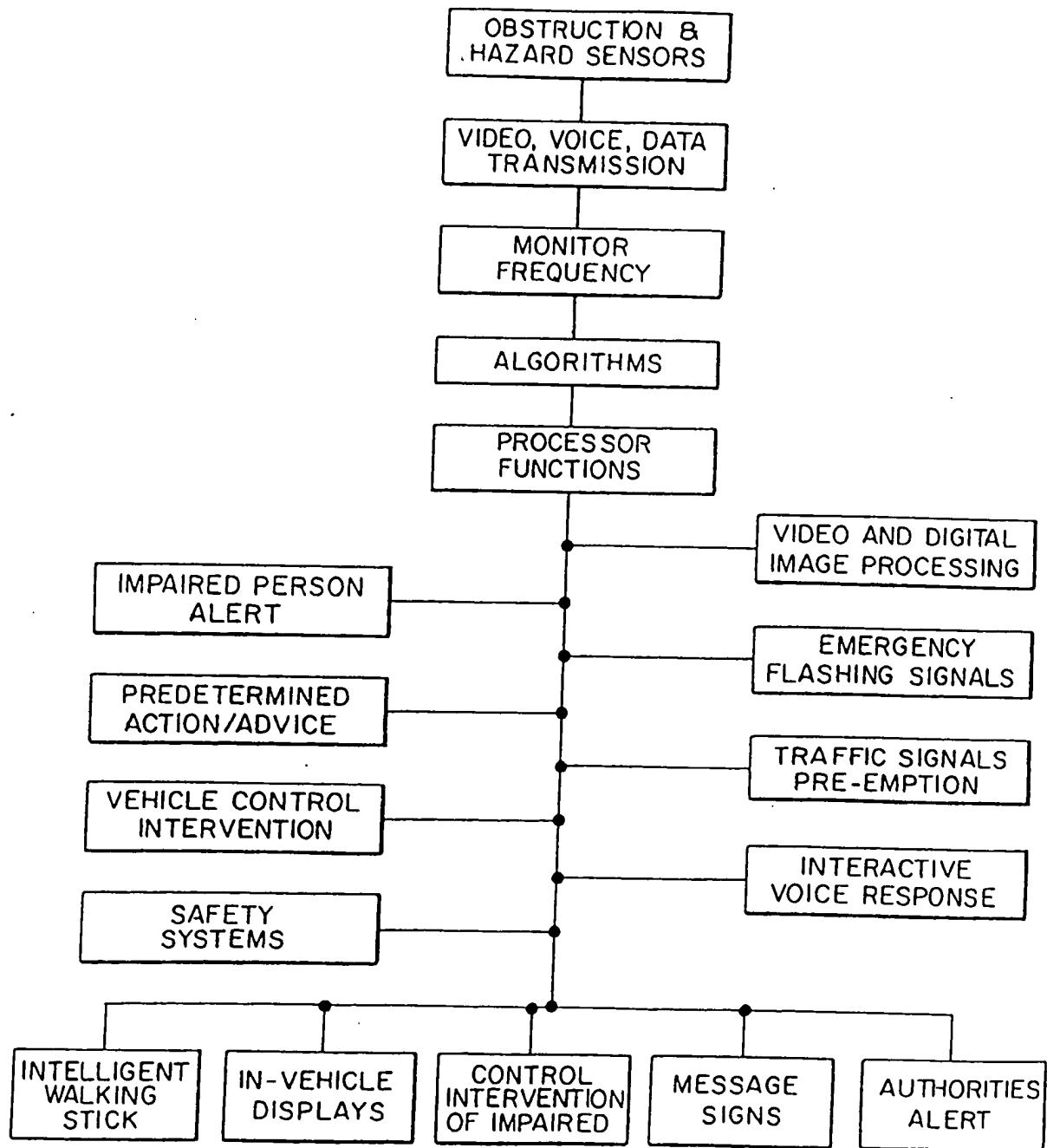


Fig.-23

EMERGENCY FLASHING LIGHTS

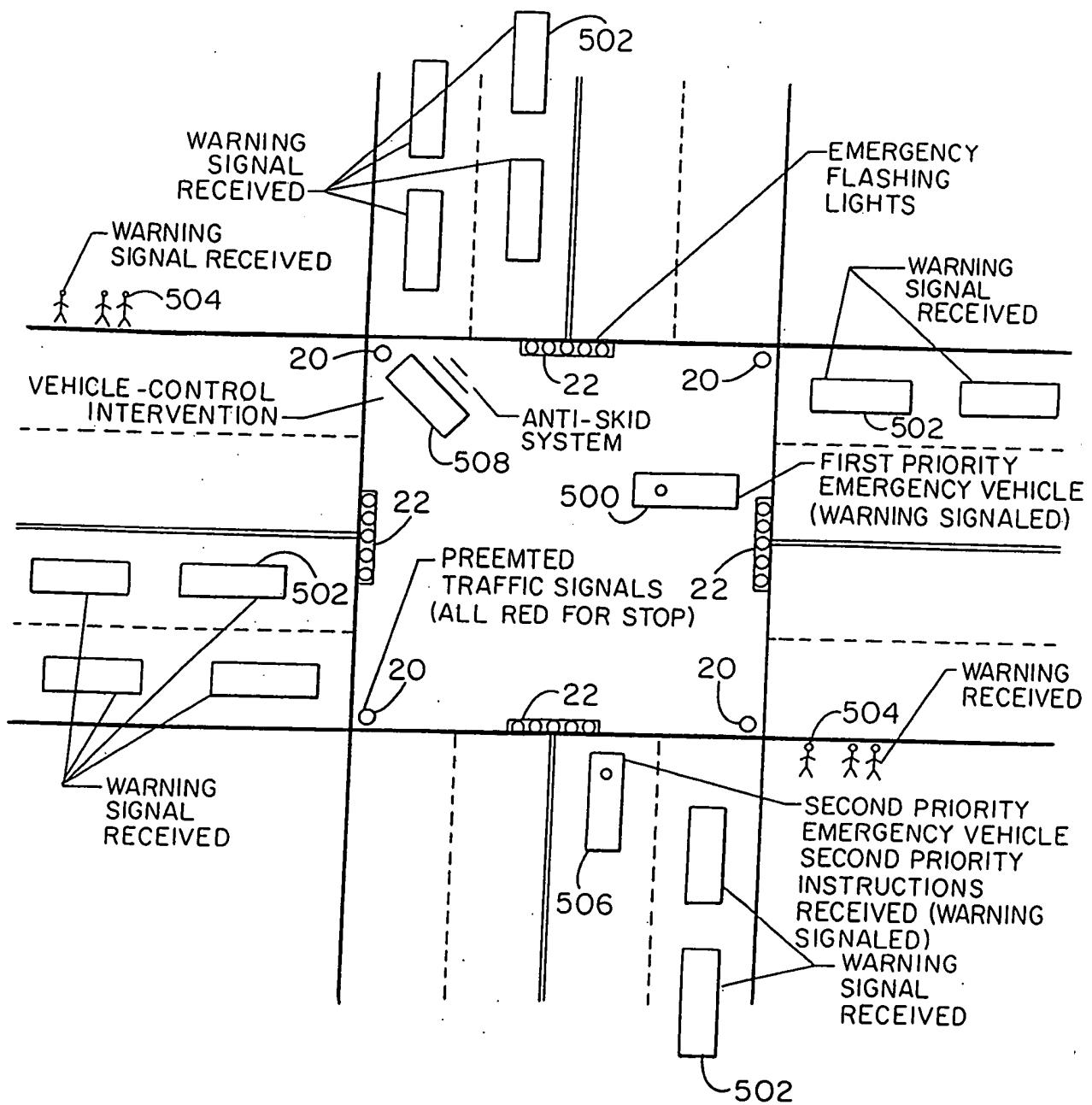


Fig.-24

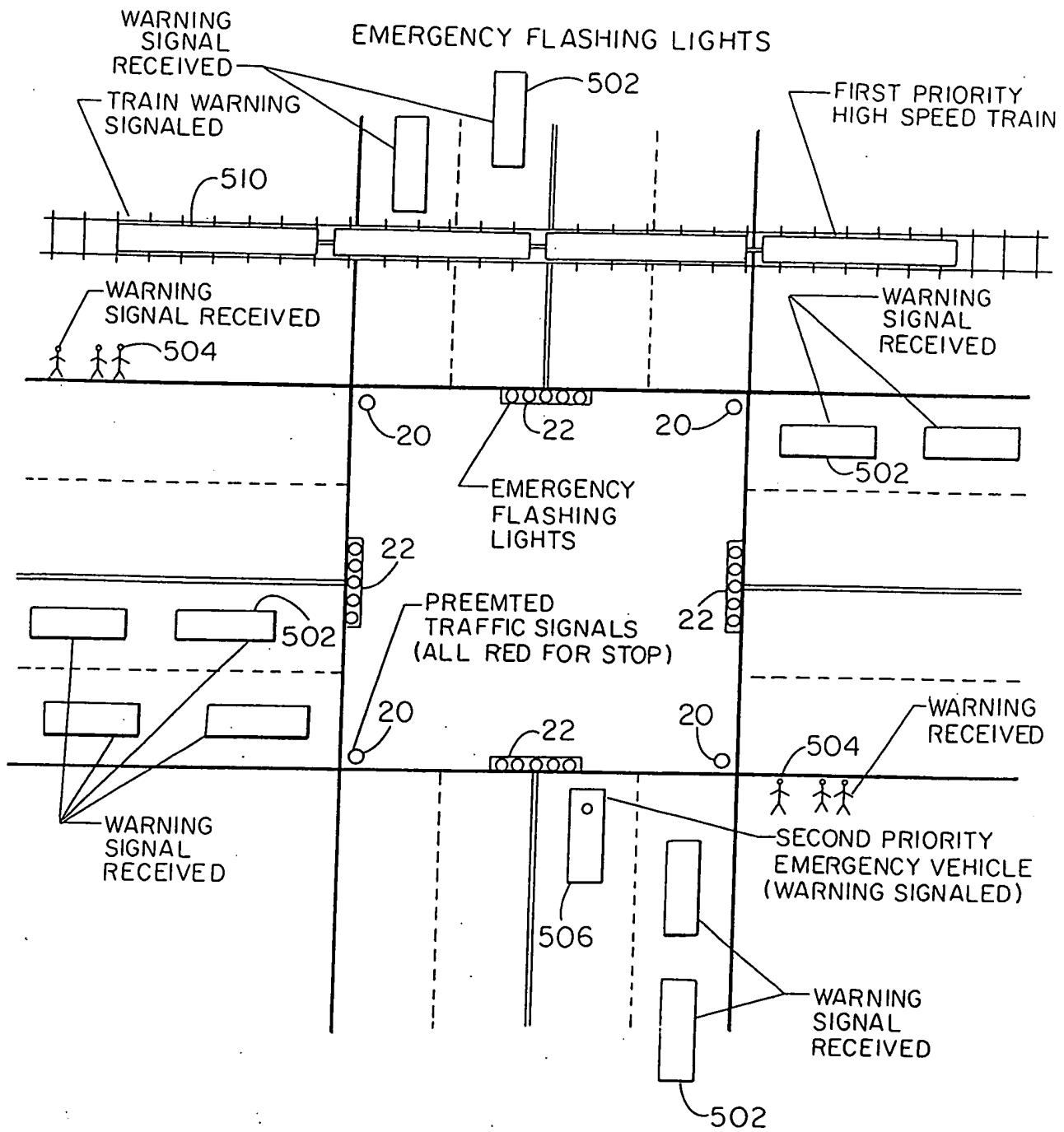


Fig. 25

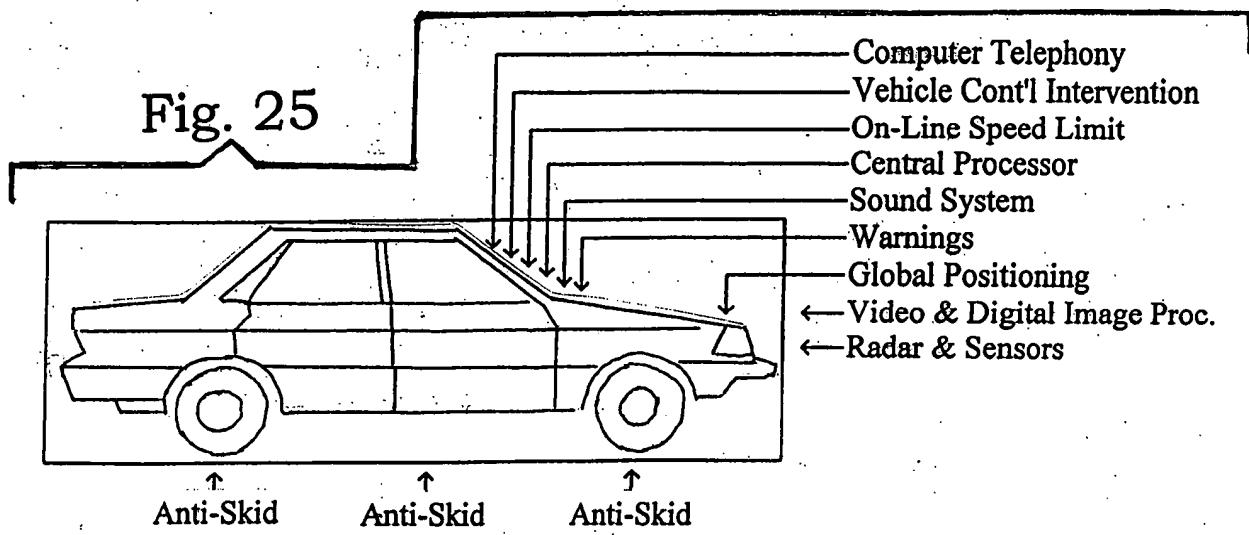
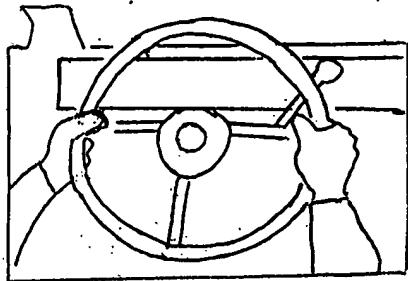


Fig. 26

INTELLIGENT VEHICLE — SAFETY READINESS

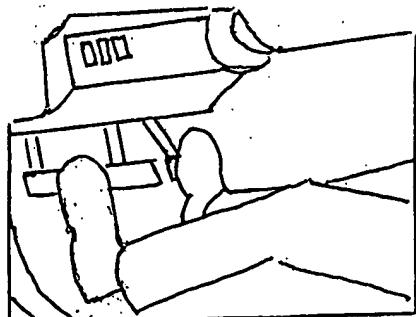
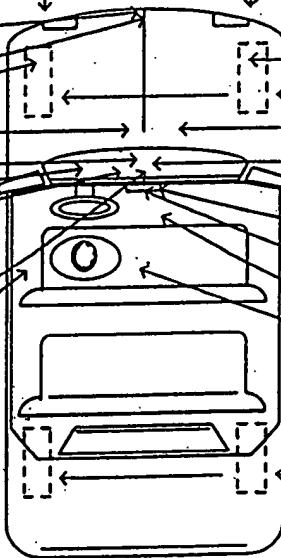


← Steering Monitor
← Lane Change Monitor

Radar & Sensor Based Systems

Video & Digital Image Processing
Charged-Coupled-Device Camera
Global Positioning System
Engine Sensors
Computer Telephony
Vision Enhancement
Central Processor
180° Scanner & Virtual Mirror
Automatic Vehicle-Cntl Intervention
Psycho-Physiological Monitors

Global Positioning System
Wheel & Tire Sensors
In-Vehicle Emissions Sensors
Warning Systems
← 180° Scanner & Virtual Mirror
In-Vehicle Display
In-Vehicle Emergency Flashing Lights
In-Vehicle Sound System
Psycho-Physiological Monitors



Braking Monitor →
Throttle Monitor →

Fig. 27

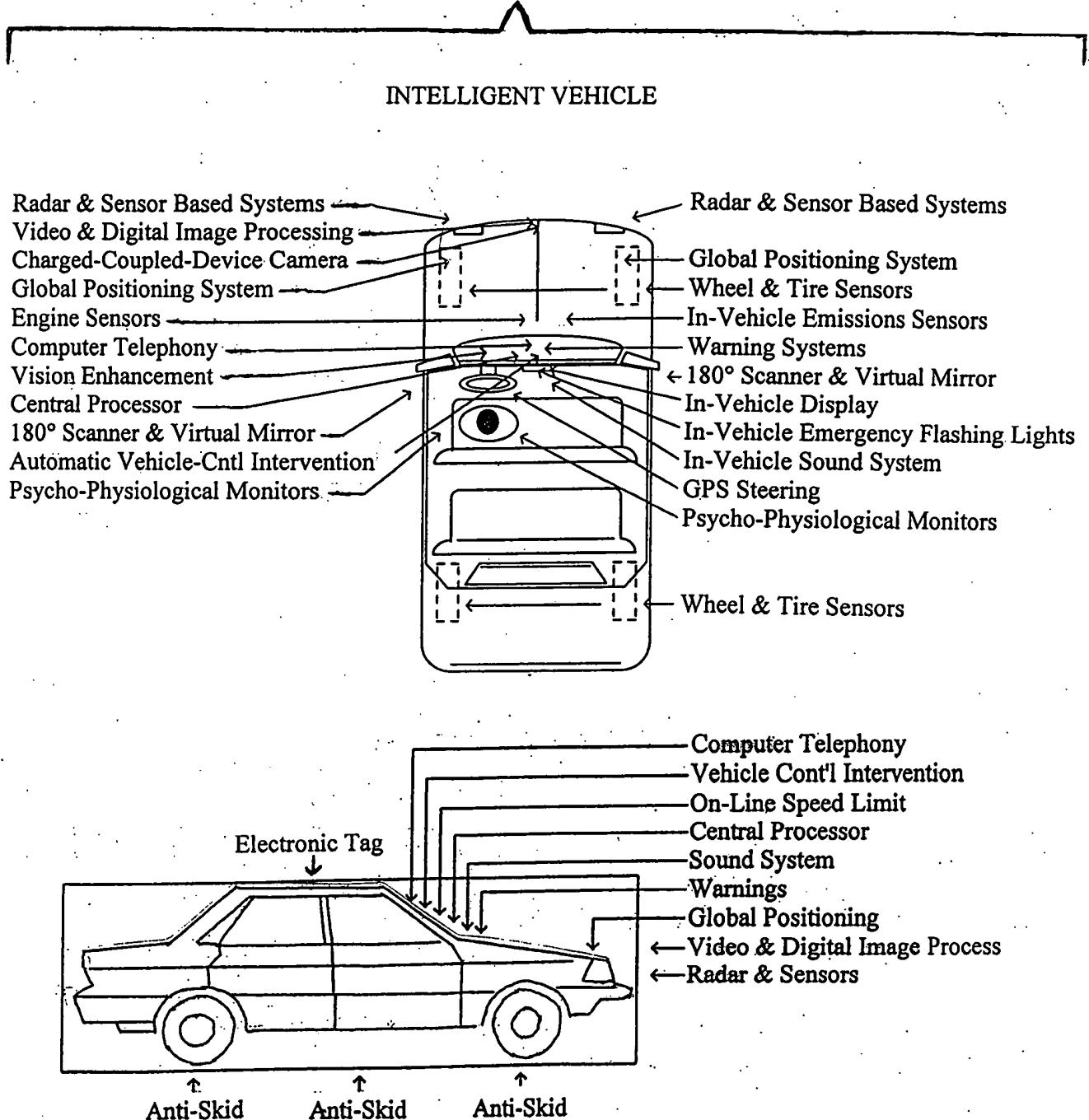


Fig. 28

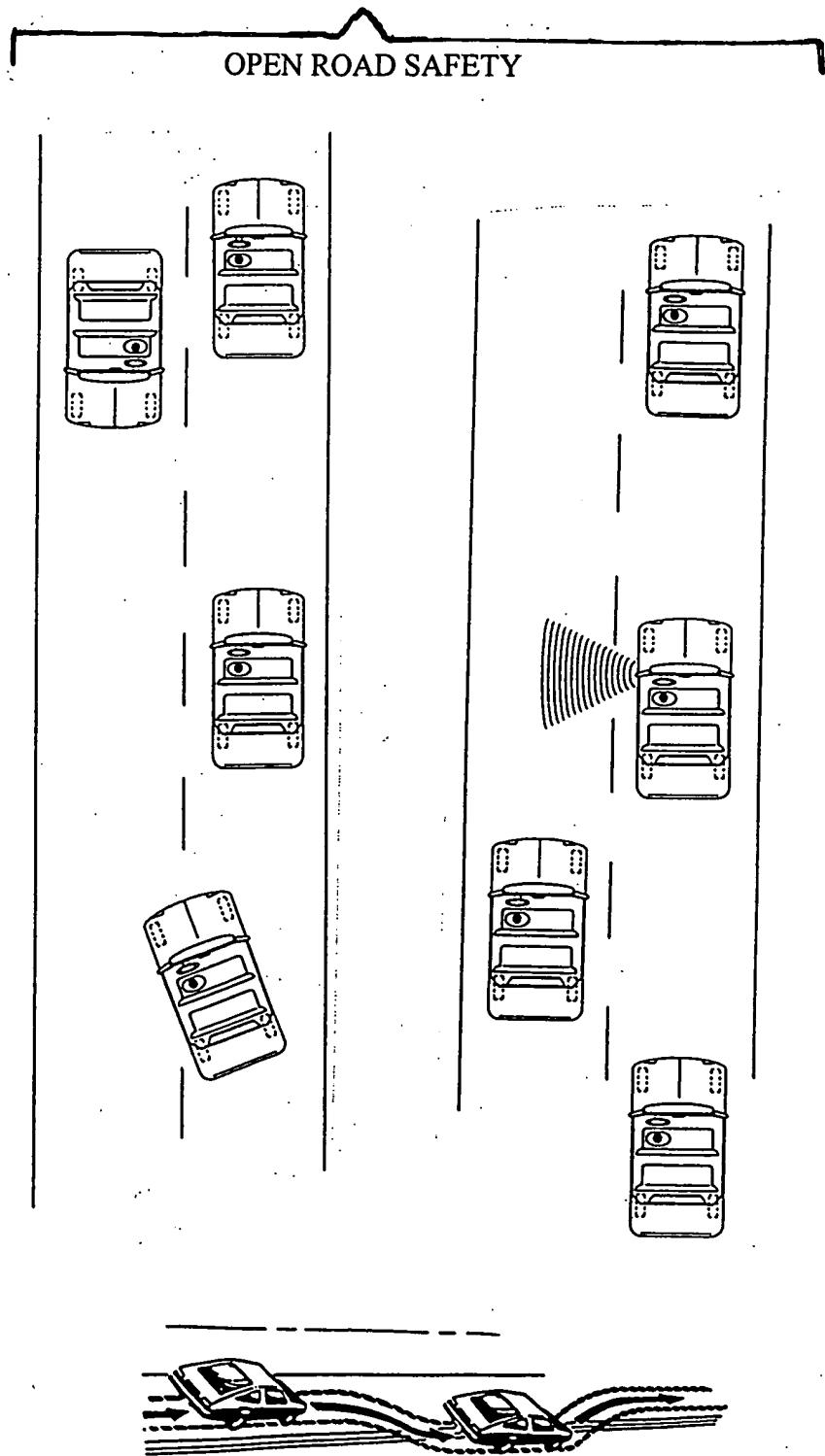


Fig. 29

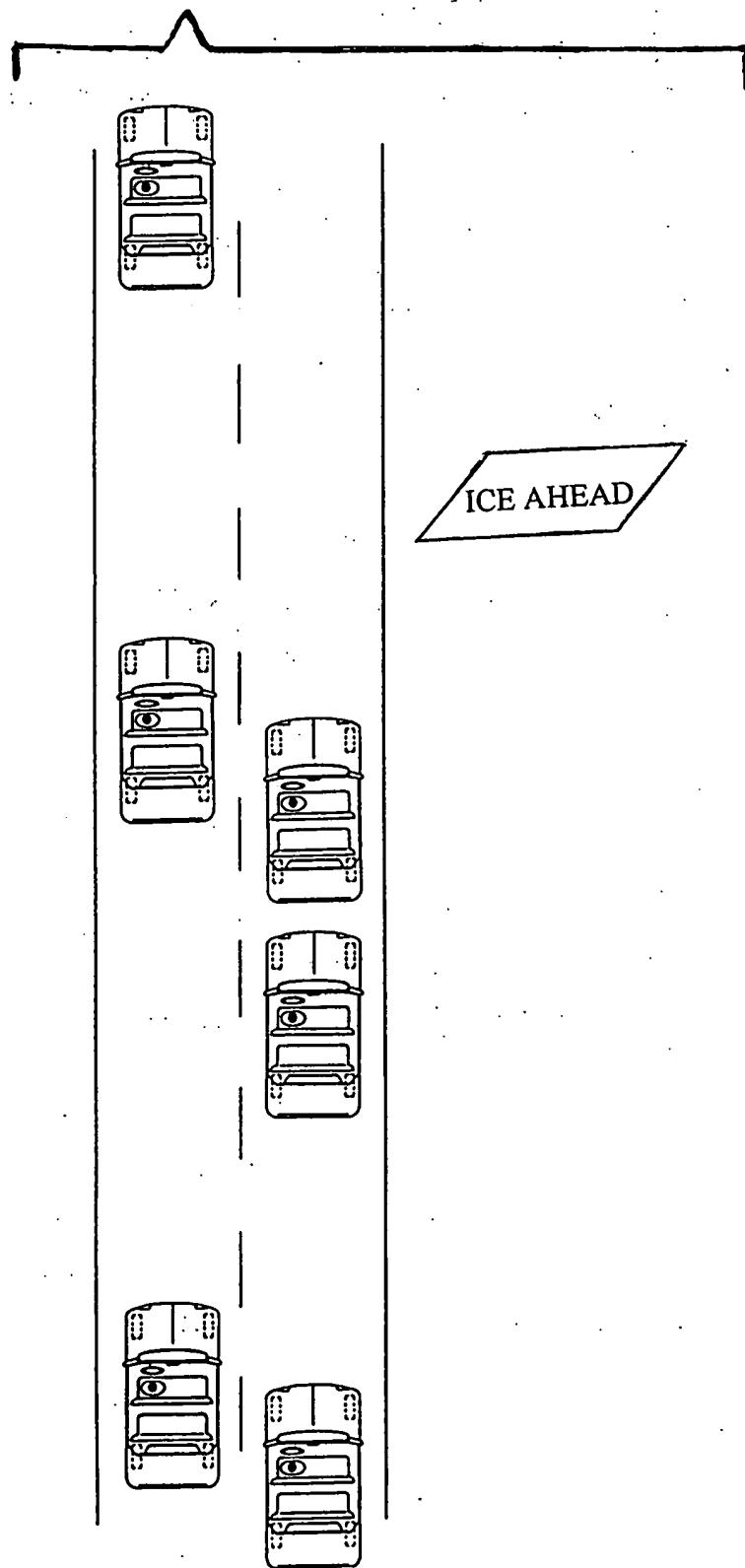
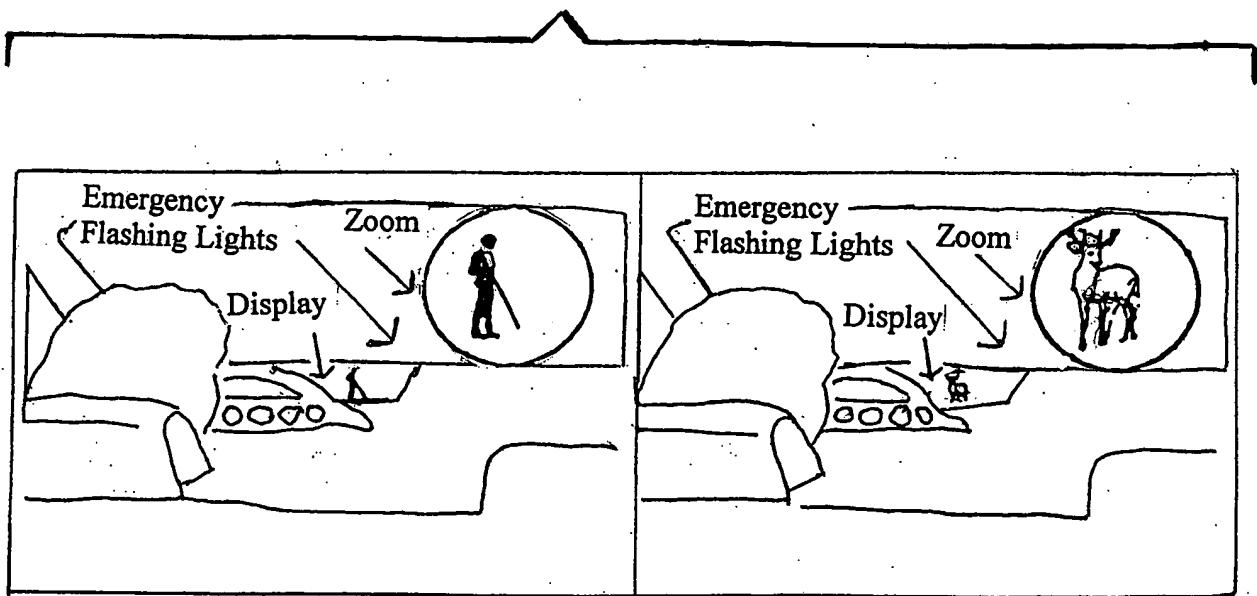


Fig. 30



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